

# FortiAnalyzer - Administration Guide

**VERSION 5.2.10**

**FORTINET DOCUMENT LIBRARY**

<http://docs.fortinet.com>

**FORTINET VIDEO GUIDE**

<http://video.fortinet.com>

**FORTINET BLOG**

<https://blog.fortinet.com>

**CUSTOMER SERVICE & SUPPORT**

<https://support.fortinet.com>

**FORTIGATE COOKBOOK**

<http://cookbook.fortinet.com>

**FORTINET TRAINING SERVICES**

<http://www.fortinet.com/training>

**FORTIGUARD CENTER**

<http://www.fortiguard.com>

**END USER LICENSE AGREEMENT**

<http://www.fortinet.com/doc/legal/EULA.pdf>

**FEEDBACK**

Email: [techdocs@fortinet.com](mailto:techdocs@fortinet.com)



January 12, 2017

FortiAnalyzer 5.2.10 Administration Guide

05-5210-232167-20170112

# TABLE OF CONTENTS

<b>Change Log</b>	<b>8</b>
<b>Introduction</b>	<b>9</b>
Feature support	9
FortiAnalyzer documentation	10
<b>What's New in FortiAnalyzer</b>	<b>11</b>
FortiAnalyzer 5.2.10	11
FortiAnalyzer 5.2.9	11
FortiAnalyzer 5.2.8	11
FortiAnalyzer 5.2.7	11
FortiAnalyzer 5.2.6	11
FortiAnalyzer 5.2.5	11
FortiAnalyzer 5.2.4	11
FortiAnalyzer 5.2.3	12
FortiAnalyzer 5.2.2	12
FortiAnalyzer 5.2.1	12
FortiAnalyzer 5.2.0	12
Event Management	12
FortiView	13
Logging	13
Reports	13
Other	13
<b>Key Concepts</b>	<b>14</b>
Administrative domains	14
Operation modes	14
Feature comparison between analyzer and collector mode	15
Analyzer mode	15
Analyzer and collector mode	16
Log storage	17
Workflow	18
<b>GUI</b>	<b>19</b>
System requirements	19
Web browser support	19
Screen resolution	19
Connecting to the GUI	19

GUI overview .....	20
GUI configuration .....	21
Language support .....	22
Administrative access .....	23
Restricting access by trusted hosts .....	24
Idle timeout .....	24
Reboot and shutdown the FortiAnalyzer unit .....	25
<b>Administrative Domains .....</b>	<b>26</b>
Adding an ADOM .....	26
Assigning devices to an ADOM .....	29
Assigning administrators to an ADOM .....	29
ADOM device modes .....	30
<b>Device Manager .....</b>	<b>31</b>
Devices .....	31
Devices and VDOMs .....	32
Unregistered devices .....	37
Device reports .....	38
Log forwarding .....	38
Disk space allocation .....	40
Log arrays in FortiAnalyzer v5.2.0 and later .....	40
<b>System Settings .....</b>	<b>41</b>
Dashboard .....	42
Customizing the dashboard .....	43
System Information widget .....	45
License Information widget .....	51
Unit Operation widget .....	52
System Resources widget .....	53
Alert Messages Console widget .....	55
CLI Console widget .....	56
Log Receive Monitor widget .....	57
Logs/Data Received widget .....	58
Statistics widget .....	60
All ADOMs .....	60
RAID management .....	63
Supported RAID levels .....	65
RAID disk status .....	68
Hot swapping hard disks .....	68
Adding new disks .....	69
Network .....	69
Network interfaces .....	71
Static routes .....	73
Diagnostic tools .....	74

Admin .....	74
Monitoring administrator sessions .....	75
Administrator .....	76
Profile .....	80
Remote authentication server .....	83
Administrator settings .....	88
Configure two-factor authentication for administrator login .....	89
Certificates .....	96
Local certificates .....	96
CA certificates .....	100
Certificate revocation lists .....	101
Event log .....	102
Task monitor .....	104
Advanced .....	106
SNMP .....	106
Mail server .....	115
Syslog server .....	115
Meta fields .....	116
Device log settings .....	118
File management .....	119
Advanced settings .....	120
<b>FortiView .....</b>	<b>122</b>
FortiView .....	122
Top Sources .....	122
Top Applications .....	125
Top Destinations .....	127
Top Web Sites .....	130
Top Threats .....	132
Top Cloud Applications/Users .....	134
System Events .....	137
Admin Logins .....	139
SSL & Dialup IPsec .....	140
Site-to-Site IPsec .....	142
Rogue APs .....	144
Resource usage .....	145
Log view .....	147
Viewing log messages .....	148
Customizing the log view .....	150
Custom views .....	155
Searching log messages .....	156
Download log messages .....	157
Log arrays .....	157

Log details .....	159
Archive .....	159
Browsing log files .....	160
FortiClient logs .....	163
FortiMail logs .....	164
FortiManager logs .....	165
FortiSandbox logs .....	166
FortiWeb logs .....	167
Syslog server logs .....	168
Configuring rolling and uploading of logs .....	169
<b>Event Management .....</b>	<b>172</b>
Events .....	172
Event details .....	173
Acknowledge events .....	175
Event handler .....	175
Manage event handlers .....	180
<b>Reports .....</b>	<b>185</b>
Reports .....	185
FortiGate reports .....	186
FortiMail reports .....	187
FortiWeb report .....	187
FortiCache report .....	187
Report configuration .....	187
Configuration tab .....	189
Grouping reports .....	190
Advanced settings tab .....	191
View report tab .....	194
Report layouts .....	195
Inserting images .....	201
Creating a table .....	201
Link .....	202
Anchor .....	202
Charts .....	203
Macros .....	204
Chart library .....	204
Managing charts .....	205
Macro library .....	207
Managing macros .....	208
Report calendar .....	209
Advanced .....	211
Dataset .....	211
Output profile .....	214

Language .....	215
<b>Appendix A - Charts, Datasets, &amp; Macros .....</b>	<b>217</b>
FortiGate .....	217
Predefined charts .....	217
Predefined datasets .....	232
Predefined macros .....	245
FortiMail .....	247
Predefined charts .....	247
Predefined datasets .....	249
FortiWeb .....	251
Predefined charts .....	251
Predefined datasets .....	252
FortiCache .....	253
Predefined charts .....	253
Predefined datasets .....	254
<b>Appendix B - Port Numbers .....</b>	<b>255</b>
<b>Appendix C - Maximum Values Matrix .....</b>	<b>257</b>
<b>Appendix D - SNMP MIB Support .....</b>	<b>259</b>
SNMP MIB Files .....	259
FORTINET-CORE-MIB .....	259
FORTINET-FORTIMANAGER-FORTIANALYZER-MIB .....	267

## Change Log

Date	Change Description
2017-01-12	Initial release of 5.2.10.



# Introduction

FortiAnalyzer platforms integrate network logging, analysis, and reporting into a single system, delivering increased knowledge of security events throughout your network. The FortiAnalyzer family minimizes the effort required to monitor and maintain acceptable use policies, as well as identify attack patterns to help you fine-tune your policies. Organizations of any size will benefit from centralized security event logging, forensic research, reporting, content archiving, data mining and malicious file quarantining.

FortiAnalyzer offers enterprise class features to identify threats, while providing the flexibility to evolve along with your ever-changing network. FortiAnalyzer can generate highly customized reports for your business requirements, while aggregating logs in a hierarchical, tiered logging topology.

You can deploy FortiAnalyzer physical or virtual appliances to collect, correlate, and analyze geographically and chronologically diverse security data. Aggregate alerts and log information from Fortinet appliances and third-party devices in a single location, providing a simplified, consolidated view of your security posture. In addition, FortiAnalyzer platforms provide detailed data capture for forensic purposes to comply with policies regarding privacy and disclosure of information security breaches.

## Feature support

The following table lists FortiAnalyzer feature support for log devices.

Platform	Logging	FortiView	Event Management	Reports
FortiGate	✓	✓	✓	✓
FortiCache	✓		✓	✓
FortiCarrier	✓	✓	✓	✓
FortiClient	✓			
FortiMail	✓		✓	✓
FortiManager	✓		✓	
FortiSandbox	✓		✓	
FortiWeb	✓		✓	✓
Syslog	✓		✓	



For more information on supported platforms, see the *FortiAnalyzer Release Notes*.

## FortiAnalyzer documentation

The following FortiAnalyzer product documentation is available:

- *FortiAnalyzer Administration Guide*

This document describes how to set up the FortiAnalyzer system and use it with supported Fortinet units.

- FortiAnalyzer device *QuickStart Guides*

These documents are included with your FortiAnalyzer system package. Use this document to install and begin working with the FortiAnalyzer system and FortiAnalyzer GUI.

- *FortiAnalyzer Online Help*

You can get online help from the FortiAnalyzer GUI. FortiAnalyzer online help contains detailed procedures for using the FortiAnalyzer GUI to configure and manage FortiGate units.

- *FortiAnalyzer CLI Reference*

This document describes how to use the FortiAnalyzer Command Line Interface (CLI) and contains references for all FortiAnalyzer CLI commands.

- *FortiAnalyzer Release Notes*

This document describes new features and enhancements in the FortiAnalyzer system for the release, and lists resolved and known issues. This document also defines supported platforms and firmware versions.

- *FortiAnalyzer VM Install Guide*

This document describes installing FortiAnalyzer VM in your virtual environments.

# What's New in FortiAnalyzer

FortiAnalyzer 5.2 includes the following new features and enhancements.

## FortiAnalyzer 5.2.10

FortiAnalyzer 5.2.10 includes bug fixes, but no new features. For more information, see the *FortiAnalyzer 5.2.10 Release Notes* in the Fortinet Document Library at <http://docs.fortinet.com/fortianalyzer/release-information>.

## FortiAnalyzer 5.2.9

FortiAnalyzer 5.2.9 includes bug fixes, but no new features. For more information, see the *FortiAnalyzer 5.2.9 Release Notes* in the Fortinet Document Library at <http://docs.fortinet.com/fortianalyzer/release-information>.

## FortiAnalyzer 5.2.8

FortiAnalyzer 5.2.8 includes no new features.

## FortiAnalyzer 5.2.7

FortiAnalyzer 5.2.7 includes no new features.

## FortiAnalyzer 5.2.6

FortiAnalyzer 5.2.6 includes no new features.

## FortiAnalyzer 5.2.5

FortiAnalyzer 5.2.5 includes no new features.

## FortiAnalyzer 5.2.4

FortiAnalyzer 5.2.4 includes no new features.

## FortiAnalyzer 5.2.3

FortiAnalyzer 5.2.3 includes no new features.

## FortiAnalyzer 5.2.2

FortiAnalyzer 5.2.2 includes the following new features and enhancements.

- Added five new default reports for FortiCache
- Improved database rebuilding process
- Added *Log Insert Lag Time* and *Insert Rate vs Receive Rate* widgets
- Added new chart and report: *Top 30 Policies by Bandwidth and Count* chart for *Bandwidth and Applications* report
- Reorganized FortiView menu by grouping

## FortiAnalyzer 5.2.1

FortiAnalyzer 5.2.1 includes the following new features and enhancements.

- New WYSIWYG report editor
- Tool for validating custom datasets
- Support reverse order in log viewer
- Multiple improvements for FortiView:
  - View for SSL & Dialup IPsec Events
  - View for System & Admin Login Events
  - View for Rogue APs
  - View for Site-to-Site IPsec VPN
  - View for Firewall Resource Usage
  - Stacked bar for Threat View
- Added a CLI command to erase data on disk
- New Application Risk and Control report

## FortiAnalyzer 5.2.0

FortiAnalyzer 5.2.0 includes the following new features and enhancements.

### Event Management

- Event Handler for local FortiAnalyzer event logs
- FortiOS v4.0 MR3 logs are now supported.
- Support subject customization of alert email.

## FortiView

- New FortiView module

## Logging

- Updated compact log v3 format from FortiGate
- Explicit proxy traffic logging support
- Improved FortiAnalyzer insert rate performance
- Log filter improvements
- FortiSandbox logging support
- Syslog server logging support

## Reports

- Improvements to report configuration
- Improvements to the Admin and System Events Report template
- Improvements to the VPN Report template
- Improvements to the Wireless PCI Compliance Report template
- Improvements to the Security Analysis Report template
- New Intrusion Prevention System (IPS) Report template
- New Detailed Application Usage and Risk Report template
- New FortiMail Analysis Report template
- New pre-defined Application and Websites report templates
- Macro library support
- Option to display or upload reports in HTML format
- FortiCache reporting support

## Other

- HA cluster auto discover



Always review all sections in the *FortiAnalyzer Release Notes* prior to upgrading your device.

---

# Key Concepts

This chapter defines basic FortiAnalyzer concepts and terms.

If you are new to FortiAnalyzer, this chapter can help you to quickly understand this document and your FortiAnalyzer platform.

This topic includes:

- [Administrative domains](#)
- [Operation modes](#)
- [Log storage](#)
- [Workflow](#)

## Administrative domains

Administrative domains (ADOMs) enable the `admin` administrator to constrain other FortiAnalyzer unit administrators' access privileges to a subset of devices in the device list. For Fortinet devices with virtual domains (VDOMs), ADOMs can further restrict access to only data from a specific device's VDOM.

Enabling ADOMs alters the structure of and the available functions in the GUI and CLI, according to whether or not you are logging in as the `admin` administrator, and, if you are not logging in as the `admin` administrator, the administrator account's assigned access profile. See [System Information widget on page 45](#) for information on enabling and disabling ADOMs.

For information on working with ADOMs, See [Administrative Domains on page 26](#). For information on configuring administrators and administrator settings, See [Admin on page 74](#).



ADOMs must be enabled to support FortiCarrier, FortiMail, FortiWeb, FortiCache, and FortiSandbox logging and reporting. See [Administrative Domains on page 26](#).

---

## Operation modes

The FortiAnalyzer unit has two operation modes:

- **Analyzer.** The default mode that supports all FortiAnalyzer features. This mode used for aggregating logs from one or more log collectors. In this mode, the log aggregation configuration function is disabled.
- **Collector.** The mode used for saving and uploading logs. For example, instead of writing logs to the database, the collector can retain the logs in their original (binary) format for uploading. In this mode, the report function and some functions under the System Settings tab are disabled.

The analyzer and collector modes are used together to increase the analyzer's performance. The collector provides a buffer to the FortiAnalyzer by off-loading the log receiving task from the analyzer. Since log collection from the connected devices is the dedicated task of the collector, its log receiving rate and speed are maximized.

The mode of operation that you choose will depend on your network topology and individual requirements. For information on how to select an operation mode, see [Changing the operation mode on page 50](#).

## Feature comparison between analyzer and collector mode

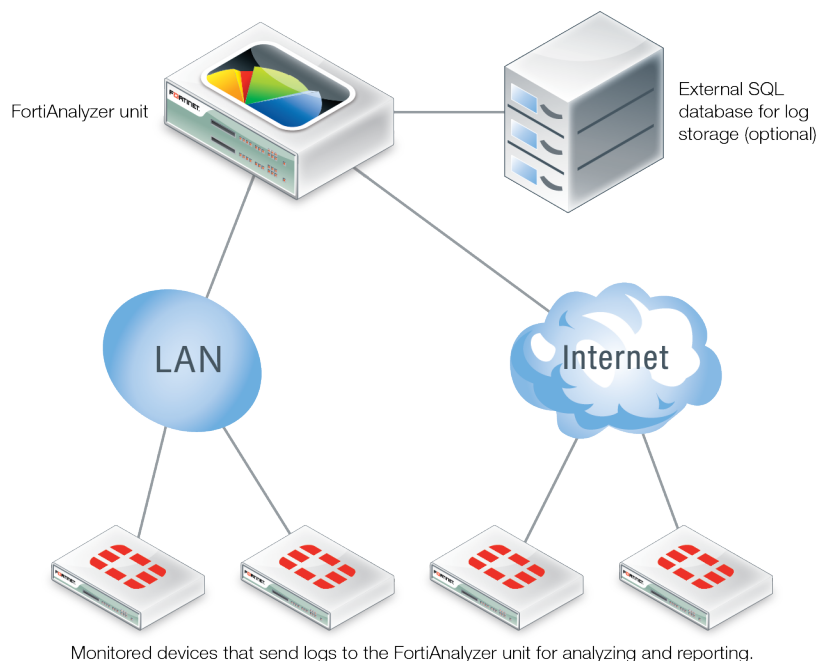
The operation mode options have been simplified to two modes, Analyzer and Collector. Standalone mode has been removed.

	Analyzer Mode	Collector Mode
Event Management	Yes	No
Monitoring	Yes	No
Reporting	Yes	No
FortiView/Log View	Yes	Yes
Device Manager	Yes	Yes
System Settings	Yes	Yes
Log Forwarding	Yes	Yes

## Analyzer mode

The analyzer mode is the default mode that supports all FortiAnalyzer features. If your network log volume does not compromise the performance of your FortiAnalyzer unit, you can choose this mode.

The topology of the unit in analyzer mode illustrates the network topology of the FortiAnalyzer unit in analyzer mode.



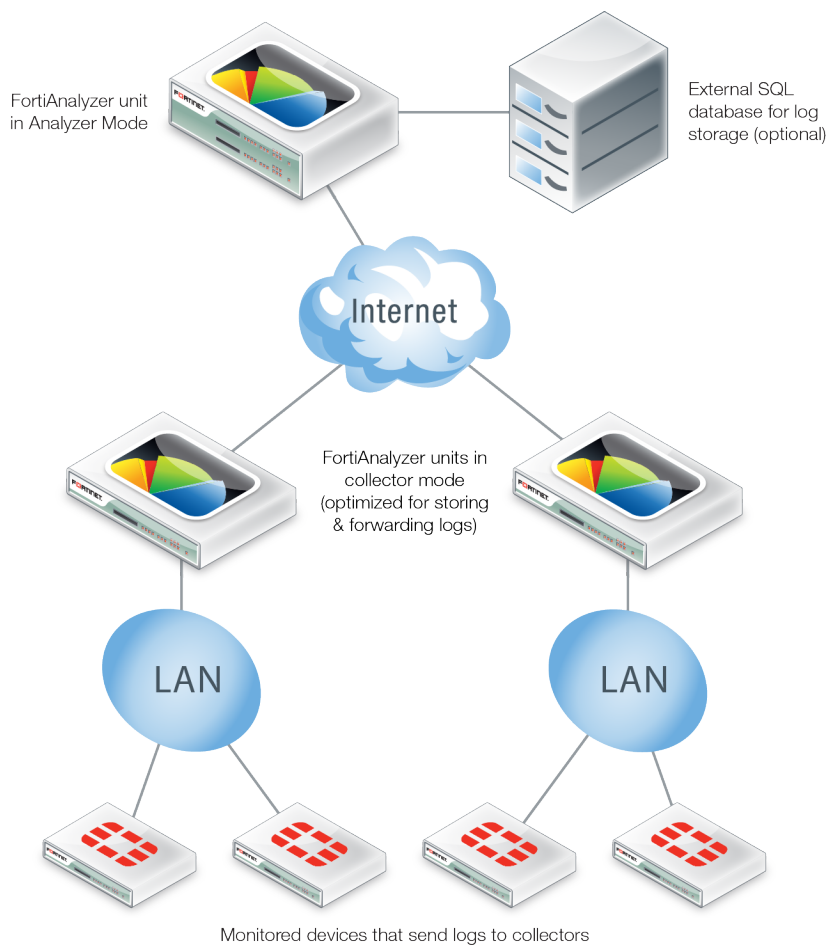
## Analyzer and collector mode

The analyzer and collector modes are used together to increase the analyzer's performance. The collector provides a buffer to the analyzer by off-loading the log receiving task from the analyzer. Since log collection from the connected devices is the dedicated task of the collector, its log receiving rate and speed are maximized.

In most cases, the volume of logs fluctuates dramatically during a day or week. You can deploy a collector to receive and store logs during the high traffic periods and transfer them to the analyzer during the low traffic periods. As a result, the performance of the analyzer is guaranteed as it will only deal with log insertion and reporting when the log transfer process is over.

As illustrated below, company A has two remote branch networks protected by multiple FortiGate units. The networks generate large volumes of logs which fluctuate significantly during a day. It used to have a FortiAnalyzer 4000B in analyzer mode to collect logs from the FortiGate units and generate reports. To further boost the performance of the FortiAnalyzer 4000B, the company deploys a FortiAnalyzer 400C in collector mode in each branch to receive logs from the FortiGate units during the high traffic period and transfer bulk logs to the FortiAnalyzer 4000B during the low traffic period.





### To set up the analyzer/collector configuration:

1. On the FortiAnalyzer unit, go to *System Settings > Dashboard*.
2. In the *System Information* widget, in the *Operation Mode* field, select *Change*.
3. Select *Analyzer* in the *Change Operation Mode* dialog box.
4. Select *OK*.
5. On the first collector unit, go to *System Settings > Dashboard*.
6. In the *System Information* widget, in the *Operation Mode* field, select *Change*.
7. Select *Collector* in the *Change Operation Mode* dialog box.
8. Select *OK*.

For more information on configuring log forwarding, see [Log forwarding on page 38](#).

## Log storage

The FortiAnalyzer unit supports Structured Query Language (SQL) logging and reporting. The log data is inserted into the SQL database for generating reports. Both local and remote SQL database options are supported.

For more information, see [Reports on page 185](#).

## Workflow

Once you have successfully deployed the FortiAnalyzer platform in your network, using and maintaining your FortiAnalyzer unit involves the following:

- Configuration of optional features, and re-configuration of required features if required by changes to your network
- Backups
- Updates
- Monitoring reports, logs, and alerts

# GUI

This section describes general information about using the GUI to access the FortiAnalyzer system with a web browser.



Additional configuration options and short-cuts are sometimes available through right-click menus. Right-clicking the mouse in various locations in the GUI accesses these options.

---

This section includes the following topics:

- [System requirements](#)
- [Connecting to the GUI](#)
- [GUI overview](#)
- [GUI configuration](#)
- [Reboot and shutdown the FortiAnalyzer unit](#)

## System requirements

### Web browser support

The FortiAnalyzer GUI supports the following web browsers:

- Microsoft Internet Explorer versions 10 and 11
- Mozilla Firefox version 33
- Google Chrome version 38

Other web browsers may function correctly, but are not supported by Fortinet.

### Screen resolution

Fortinet recommends setting your monitor to a screen resolution of 1280x1024. This allows for all the objects in the GUI to be properly viewed.



Please refer to the [FortiAnalyzer Release Notes](#) for product integration and support information.

---

## Connecting to the GUI

The FortiAnalyzer unit can be configured and managed using the GUI or the CLI. This section will step you through connecting to the unit via the GUI.

For more information on connecting your specific unit, read that device's Quick Start guide.

### To connect to the GUI:

1. Connect the unit to a management computer using an Ethernet cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiAnalyzer unit:
  - IP address: 192.168.1.2
  - Netmask: 255.255.255.0
3. On the management computer, start a supported web browser and browse to `https://192.168.1.99`.
4. Type `admin` in the *User Name* field, leave the *Password* field blank, and select *Login*.  
You should now be able to use the FortiAnalyzer GUI.



If the network interfaces have been configured differently during installation, the URL and/or permitted administrative access protocols (such as HTTPS) may no longer be in their default state.

For information on enabling administrative access protocols and configuring IP addresses, see [To edit a network interface: on page 72](#).



If the URL is correct and you still cannot access the GUI, you may also need to configure static routes. For details, see [Static routes on page 73](#).

## GUI overview

The FortiAnalyzer GUI consists of four primary parts: the tab bar, the main menu bar, the tree menu, and the content pane. The content pane includes a toolbar and, in some tabs, is horizontally split into two sections. The main menu bar is only visible in certain tabs when ADOMs are disabled (see [System Information widget on page 45](#)).

You can use the GUI menus, lists, and configuration pages to configure most FortiAnalyzer settings. Configuration changes made using the GUI take effect immediately without resetting the FortiAnalyzer system or interrupting service.

The GUI also includes online help, accessed by selecting the help icon in the right side of the tab bar.

### Tab bar

The GUI tab bar contains the device model, the available tabs, the *Help* button and the *Log Out* button.

<b>Device Manager</b>	Manage devices and VDOMs, and view real-time monitor data. See <a href="#">Device Manager on page 31</a> .
<b>FortiView</b>	The following summary views are available: Top Sources, Top Applications, Top Destinations, Top Websites, Top Threats, Top Cloud Applications, Top Cloud Users, System Events, Admin Logins, SSL & Dialup IPsec, Site-Site IPsec, Rogue APs, and Resource Usage. This tab was implemented to match the FortiView implementation in FortiGate. The <i>Log View</i> tab is found in the FortiView tab. View logs for managed devices. You can display, download, import, and delete logs on this page. You can also define Custom Views. See <a href="#">FortiView on page 122</a> .

<b>Event Management</b>	Configure and view events for managed log devices. See <a href="#">Event Management on page 172</a> . This tab is not available when the unit is in Collector mode. See <a href="#">Operation modes on page 14</a> for more information.
<b>Reports</b>	Configure report templates, schedules, and output profiles, and manage charts and datasets. See <a href="#">Reports on page 185</a> . This tab is not available when the unit is in Collector mode. See <a href="#">Operation modes on page 14</a> for more information.
<b>System Settings</b>	Configure system settings such as network interfaces, administrators, system time, server settings, and others. You can also perform maintenance and firmware operations. See <a href="#">System Settings on page 41</a> .
<b>Change Password</b>	Select to change the password. <i>Restricted_User</i> and <i>Standard_User</i> admin profiles do not have access to the <i>System Settings</i> tab. An administrator with either of these admin profiles will see the change password icon in the navigation pane.
<b>Help</b>	Open the FortiAnalyzer online help.
<b>Log Out</b>	Log out of the GUI.

## Tree menu

The GUI tree menu is on the left side of the window. The content in the menu varies depending on which tab is selected and how your FortiAnalyzer unit is configured.

Some elements in the tree menu can be right-clicked to access different configuration options.

## Content pane

The content pane is on the right side of the window. The information changes depending on which tab is being viewed and what element is selected in the tree menu. The content pane of the *Log View* and *Reports* tabs are split horizontally into two frames.

# GUI configuration

Global settings for the GUI apply regardless of which administrator account you use to log in. Global settings include the idle timeout, TCP port number on which the GUI listens for connection attempts, the network interface(s) on which it listens, and the language of its display.

This section includes the following topics:

- [Language support](#)
- [Administrative access](#)
- [Restricting access by trusted hosts](#)
- [Idle timeout](#)

## Language support

The GUI supports multiple languages; the default language setting is *Auto Detect*. *Auto Detect* uses the language configured on your management computer. If that language is not supported, the GUI will default to English.

You can change the GUI language to English, Simplified Chinese, Traditional Chinese, Japanese, or Korean. For best results, you should select the language that the management computer operating system uses.

### To change the GUI language:

1. Go to *System Settings > Admin > Admin Settings*.

The screenshot shows the 'Settings' page with the 'Administration Settings' section. The 'Language' field is highlighted, and its dropdown menu is open, showing options: 'Auto Detect', 'English', 'Simplified Chinese', 'Traditional Chinese', 'Japanese', and 'Korean'. The 'Auto Detect' option is currently selected. Other settings visible include HTTP Port (80), HTTPS Port (443), HTTPS & Web Service Server Certificate (server.crt), Idle Timeout (15 minutes), and a checkbox for Password Policy. An 'Apply' button is at the bottom right.

2. In the *Language* field, select a language from the drop-down list, or select *Auto Detect* to use the same language as configured for your management computer.
3. Select *Apply*.

## FortiAnalyzer language support

Language	GUI	Reports	Documentation
English	✓	✓	✓
Chinese (Simplified)	✓	✓	
Chinese (Traditional)	✓	✓	
French		✓	
Hebrew		✓	
Hungarian		✓	
Japanese	✓	✓	

Language	GUI	Reports	Documentation
Korean	✓	✓	
Portuguese		✓	
Spanish		✓	

Hebrew and Hungarian are not included in the default report languages. You can import language translation files for these languages via the command line interface using one of the following commands:

```
execute sql-report import-lang <language name> <ftp> <server IP
address> <user name> <password> <file name>
execute sql-report import-lang <language name> <sftp> <server IP
address> <user name> <password> <file name>
execute sql-report import-lang <language name> <scp> <server IP
address> <user name> <password> <file name>
execute sql-report import-lang <language name> <tftp> <server IP
address> <file name>
```

For more information, see the *FortiAnalyzer CLI Reference* available from the [Fortinet Document Library](#).

## Administrative access

Administrative access enables an administrator to connect to the system to view and change configuration settings. The default configuration of your system allows administrative access to one or more of the interfaces of the unit as described in the QuickStart and installation guides for your device.

Administrative access can be configured in IPv4 or IPv6 and includes settings for: HTTPS, HTTP, PING, SSH (Secure Shell), TELNET, SNMP, Web Service, and Aggregator.

### To change administrative access:

1. Go to *System Settings > Network*. By default, port1 settings will be presented. To configure administrative access for a different interface, select *All Interfaces*, and then select the interface from the list.
2. Set the IPv4 *IP/Netmask* or the *IPv6 Address*, select one or more *Administrative Access* types for the interface, and set the default gateway and Domain Name System (DNS) servers.

**Network**

**Management Interface**

**port1**

IP/Netmask
172.16.81.80/255.255.255.0

IPv6 Address
::/0

Administrative Access

☒ HTTPS
☒ HTTP
☒ PING

☒ SSH
☒ TELNET
☒ SNMP

☒ Web Service
☒ Aggregator

IPv6 Administrative Access

☐ HTTPS
☐ HTTP
☐ PING

☐ SSH
☐ TELNET
☐ SNMP

☐ Web Service
☐ Aggregator

Default Gateway
172.16.81.1

**DNS**

Primary DNS Server
208.91.112.53

Secondary DNS Server
208.91.112.63

All Interfaces
Routing Table
IPv6 Routing Table
Diagnostic Tools

Apply

3. Select *Apply* to finish changing the access settings.  
For more information, see [Network on page 69](#).

## Restricting access by trusted hosts

To prevent unauthorized access to the GUI you can configure administrator accounts with trusted hosts. With trusted hosts configured, the admin user can only log in to the GUI when working on a computer with the trusted host as defined in the admin account.

For more information, see [Administrator on page 76](#).

## Idle timeout

By default, the GUI disconnects administrative sessions if no activity takes place for fifteen minutes. This idle timeout is recommended to prevent someone from using the GUI from a PC that is logged in and then left unattended.



**To change the GUI idle timeout:**

1. Go to *System Settings > Admin > Admin Settings*.
2. Change the *Idle Timeout* minutes as required.
3. Select *Apply* to save the setting.

For more information, see [Administrator settings on page 88](#).

## Reboot and shutdown the FortiAnalyzer unit

Always reboot and shutdown the FortiAnalyzer system using the unit operation options in the GUI or the CLI to avoid potential configuration problems.

**To reboot the FortiAnalyzer unit:**

1. In the GUI, go to *System Settings > Dashboard*.
2. In the *Unit Operation* widget, select *Reboot* or, in the *CLI Console* widget, enter:  

```
execute reboot
The system will be rebooted.
Do you want to continue? (y/n)
```
3. Select *y* to continue. The FortiAnalyzer system will be rebooted.

**To shutdown the FortiAnalyzer unit:**

1. In the GUI, go to *System Settings > Dashboard*.
2. In the *Unit Operation* widget, select *Shutdown* or, in the *CLI Console* widget, enter:  

```
execute shutdown
The system will be halted.
Do you want to continue? (y/n)
```
3. Select *y* to continue. The FortiAnalyzer system will be shut down.

**To reset the FortiAnalyzer unit:**

1. In the *CLI Console* widget, enter:  

```
execute reset all-settings
This operation will reset all settings to factory defaults
Do you want to continue? (y/n)
```
2. Select *y* to continue. The device will reset to factory default settings and reboot.

**To reset logs and re-transfer all logs into the database:**

1. In the *CLI Console* widget, enter:  

```
execute reset-sqllog-transfer
WARNING: This operation will re-transfer all logs into database.
Do you want to continue? (y/n)
```
2. Select *y* to continue.

# Administrative Domains

When ADOMs are enabled, you must select the ADOM from the drop-down list in the toolbar. The *Device Manager*, *FortiView*, *Event Management*, and *Reports* tab are displayed per ADOM. The devices within each ADOM are shown in the default *All FortiGate* group. When ADOMs are disabled, the tree menu simply displays *All FortiGates* and *Unregistered Devices*, if there are any. Non-FortiGate devices are grouped into their own specific ADOMs.

ADOMs are not enabled by default, and enabling and configuring the domains can only be performed by the `admin` administrator. The maximum number of ADOMs you can add depends on the specific FortiAnalyzer system model. Please refer to the FortiAnalyzer data sheet for information on the maximum number of devices and ADOMs that your model supports.

The number of devices within each group is shown in parentheses next to the group name.



ADOMs must be enabled to support non-FortiGate logging and reporting. When a non-FortiGate device is promoted to the DVM table, the device is added to their respective default ADOM and will be visible in the left tree menu. See [Adding an ADOM on page 26](#).



FortiGate and FortiCarrier devices cannot be grouped into the same ADOM. FortiCarrier devices are added to a specific default FortiCarrier ADOM.

## To enable the ADOM feature:

1. Log in as `admin`.
2. Go to *System Settings > Dashboard*.
3. In the *System Information* widget, select *Enable* next to *Administrative Domain*.
4. Select *OK* in the confirmation dialog box to enable ADOMs.

## To disable the ADOM feature:

1. Remove all log devices from all non-root ADOMs.
2. Delete all non-root ADOMs, by right-clicking on the ADOM in the tree menu in the *Device Manager* tab and selecting *Delete* from the pop-up menu.
3. Go to *System Settings > Dashboard*.
4. In the system information widget, select *Disable* next to *Administrative Domain*.
5. Select *OK* in the confirmation dialog box to disable ADOMs.

## Adding an ADOM

You can create both FortiGate and FortiCarrier ADOMs for versions 5.2, 5.0, and 4.3. FortiAnalyzer has default ADOMs for all non-FortiGate devices. When one of these devices is promoted to the DVM table, the device is added to their respective default ADOM and will be visible in the tree menu.

**To add an ADOM:**

1. Go to *System Settings > All ADOMs* and select *Create New* in the toolbar. Alternatively, in the Device Manager tab, from the ADOM drop-down list, select *Manage ADOMs*. In the Manage ADOMs window that opens, select *Create New*. The Create ADOM dialog box opens.

2. Enter the following information:

<b>Name</b>	Enter an unique name that will allow you to distinguish this ADOM from your other ADOMs.
<b>Device Type</b>	Select the device type from the drop-down list. Select one of the following options: FortiGate, FortiCarrier, FortiAnalyzer, FortiMail, FortiSandbox, FortiWeb, FortiCache, FortiManager, or Syslog.
<b>Version</b>	Select the firmware version of the devices that will be in the ADOM. The available options is dependent on the device type selected.
<b>Search</b>	Enter a search term to find a specific device (optional).
<b>Devices Groups</b>	Transfer devices, VDOMs, and groups from the available member list on the left to the selected member list on the right to assign those devices to the ADOM.

3. Select *OK* to create the ADOM.

**To edit an ADOM:**

1. Go to *System Settings > All ADOMs*, right-click on the ADOM you need to edit, and select *Edit* in the right-click menu. Alternatively, in the *Device Manager* tab, from the ADOM drop-down list, select *Manage ADOMs*. In the Manage ADOMs window that opens, right-click on the ADOM you need to edit, and select *Edit* in the right-click menu. The *Edit ADOM* dialog box opens.

2. Edit the following information as required:

<b>Name</b>	Edit the ADOM name.
<b>Device Type</b>	This field cannot be edited.
<b>Version</b>	This field cannot be edited.
<b>Search</b>	Enter a search term to find a specific device (optional).
<b>Devices Groups</b>	Transfer devices VDOMs, and groups from the available member list on the left to the selected member list on the right to assign those devices to the ADOM.
<b>Status</b>	Enable or disable the ADOM.

3. Select *OK* to finish editing the ADOM.

**To delete an ADOM:**

1. Go to *System Settings > All ADOMs*, right-click on the ADOM you need to delete, and select *Delete* in the right-click menu. Alternatively, in the *Device Manager* tab, from the ADOM drop-down list, select *Manage ADOMs*. In the Manage ADOMs window that opens, right-click on the ADOM you need to delete, and select *Delete* in the right-click menu.



The root ADOM and ADOMs which contains user(s) or device(s) cannot be deleted.

---

2. Select *OK* in the confirmation dialog box to delete the ADOM.

## Assigning devices to an ADOM

The `admin` administrator selects the devices to be included in an ADOM. You cannot assign the same device to two different ADOMs.

**To assign devices to an ADOM:**

1. Open the *Edit ADOM* dialog box (see [To edit an ADOM: on page 28](#)).
2. From the *Available member* list, select which devices you want to associate with the ADOM and select the right arrow to move them to the *Selected member* list. If the administrative device mode is *Advanced*, you can add separate FortiGate VDOMs to the ADOM as well as FortiGate units.
3. When done, select *OK*. The selected devices appear in the device list for that ADOM.



You can move multiple devices at once. To select multiple devices, select the first device, then hold the Shift key while selecting the last device in a continuous range, or hold the control key while selecting each additional device.

---

## Assigning administrators to an ADOM

The `admin` administrator can create other administrators and assign an ADOM to their account, constraining them to configurations and data that apply only to devices in their ADOM.



By default, when ADOMs are enabled, existing administrator accounts other than `admin` are assigned to the `root` domain, which contains all devices in the device list. For more information about creating other ADOMs, see [Adding an ADOM on page 26](#).

---

**To assign an administrator to an ADOM:**

1. Log in as `admin`. Other administrators cannot configure administrator accounts when ADOMs are enabled.
2. Go to *System Settings > Admin > Administrator*.
3. Configure the administrator account, and select the *Admin Domains* that the administrator account will be able to use to access the FortiManager system.



Do not select *Edit* for the `admin` account. The `admin` administrator account cannot be restricted to an ADOM.

4. Select *OK* to save the setting.  
See [Administrator on page 76](#) for more information.

## ADOM device modes

An ADOM has two device modes: normal and advanced. In normal mode, you cannot assign different FortiGate VDOMs to multiple FortiManager ADOMs. The FortiGate unit can only be added to a single ADOM.

In advanced mode, you can assign different VDOMs from the same FortiGate unit to multiple ADOMs.



Advanced ADOM mode will allow users to assign VDOMs from a single device to different ADOMs, but will result in a reduced operation mode and more complicated management scenarios. It is recommended for advanced users only.

To change the ADOM mode, go to *System Settings > Advanced > Advanced Settings* and change the selection in the *ADOM Mode* field.

Alternatively, use the following command in the CLI:

```
config system global
    set adom-mode {normal | advanced}
end
```

Normal mode is the default setting. To change from advanced back to normal, you must ensure no FortiGate VDOMs are assigned to an ADOM.

# Device Manager

The *Device Manager* tab allows you to add and edit devices and VDOMs, and view completed reports for devices and VDOMs.



You cannot add and edit device groups.

Device Name	IP	Platform	Logs	Quota	Secure Connection	Description
FGT-B-Vivian	172.16.106.172	FortiGate-300C	●		⊗	
root		VDOM	●			
vd1		VDOM	●			
vd2		VDOM	●			
FGT_1240B	192.168.1.254	FortiGate-1240B	●		⊗	
vd1		VDOM	●			
vd2		VDOM	●			
vd3		VDOM	●			
vd4		VDOM	●			
vpn-vd		VDOM	●			
FGT_1240B_SIM_v5	192.168.1.92	FortiGate-1240B	●		⊗	
root		VDOM	●			
vd1		VDOM	●			
vd2		VDOM	●			
vd3		VDOM	●			
vd4		VDOM	●			
FGT_200B_1	192.168.1.10	FortiGate-200B	●		⊗	
FGT_200B_2	192.168.1.9	FortiGate-200B	●		⊗	
FGT_VM64_HA_Master	192.168.1.90	FortiGate-VM	●		⊗	
6		VDOM	●			
root		VDOM	●			

The tree menu shows the devices and VDOMs within the selected ADOM. If ADOMs are disabled, the tree menu simply shows the devices. When ADOMs are enabled, the ADOM is selected using the drop-down list in the toolbar.

The device and VDOM list can be searched using the search box in the content pane toolbar. The columns shown in the list can be customized, and the list can be sorted by selecting a column header.

## To change the column settings:

1. Right-click on a column heading in the content pane. Columns currently included in the content pane table have a green check mark next them.
2. Select a column from the list to add or remove that column from the table.
3. Select *Reset to Default* to reset the table to its default state.

## Devices

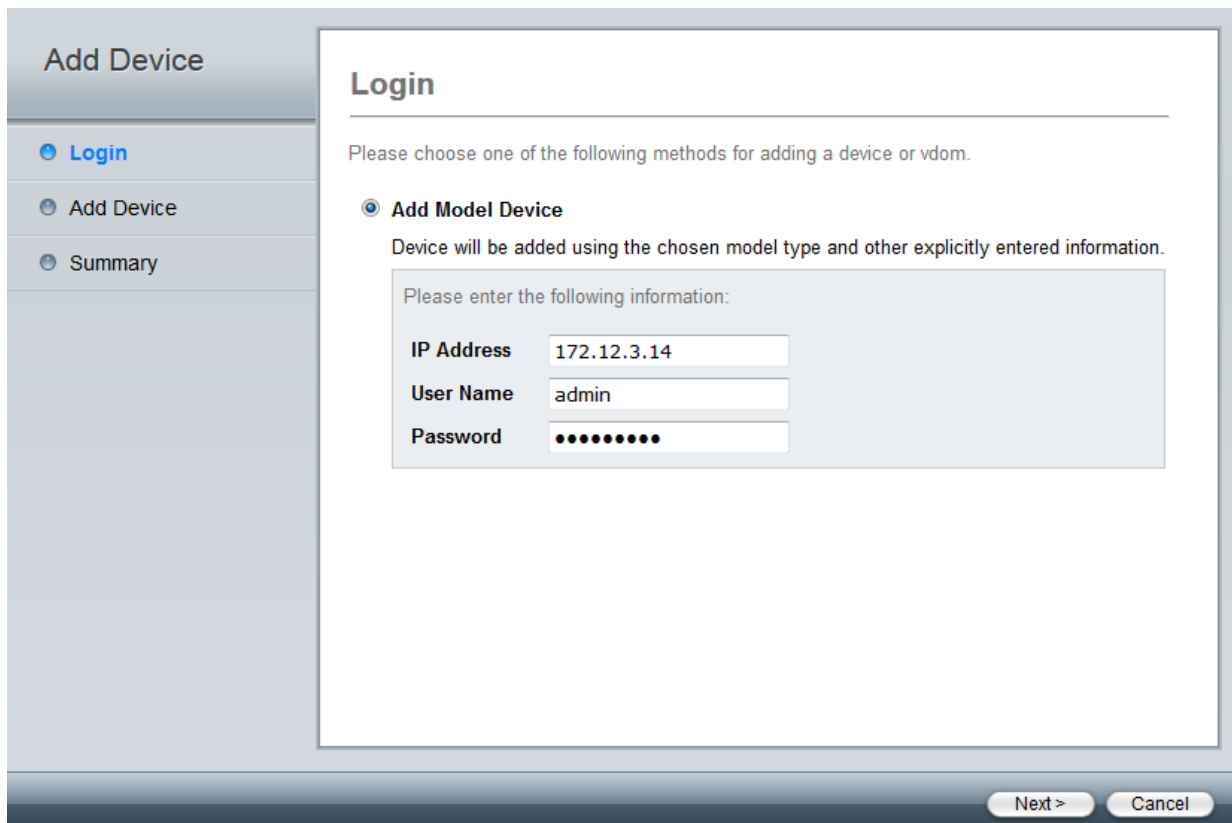
Devices are organized by device type. VDOMs and model devices can be created and deleted.

## Devices and VDOMs

Device models can be added and deleted, devices can be edited, and VDOMs can be deleted. The *Add Devicewizard* is used to add model devices.

### To add a model device:

1. Right-click on a group in the tree menu or in the content pane and, from the right-click menu, select *Add Device*, or, if ADOMs are not enabled, select *Add Device* from the toolbar. The *Add Device* wizard opens.



The screenshot shows the 'Add Device' wizard interface. On the left is a sidebar with three steps: 'Login' (selected and highlighted in blue), 'Add Device', and 'Summary'. The main content area is titled 'Login' and contains the following text: 'Please choose one of the following methods for adding a device or vdom.' Below this, the 'Add Model Device' option is selected with a radio button. A sub-instruction states: 'Device will be added using the chosen model type and other explicitly entered information.' A light gray box prompts the user to 'Please enter the following information:' and contains three input fields: 'IP Address' with the value '172.12.3.14', 'User Name' with the value 'admin', and 'Password' with masked characters. At the bottom right of the wizard are 'Next >' and 'Cancel' buttons.

2. Enter the device IP address, user name, and password in the requisite fields.
3. Select *Next* to continue to the next page of the wizard: *Add Device*.



**Add Device**

Please input the following information to complete addition of the device:

**Name**

**Description**



**Device Type** FortiGate ▼

**Device Model** FortiGate-20C ▼

**Firmware Version** 5.0 ▼

**HA Cluster** ☒

**Serial No. 1**

**Serial No. 2**   

**Disk Log Quota (min. 100MB)** 1000 MB (Total 0 MB Available)

**When Allocated Disk Space is Full** ☒ Overwrite Oldest Logs ☐ Stop Logging

**Device Permissions** ☒ Logs ☒ DLP Archive ☒ Quarantine ☒ IPS Packet Log

▶ **Other Device Information**

< Back Next > Cancel

4. Enter the following information:

<b>Name</b>	Enter a name for the device.
<b>Description</b>	Enter a description for the device (optional).
<b>Device Type</b>	Select the device type from the drop-down list. Select FortiGate for FortiGate ADOMs, FortiSwitch for FortiSwitch ADOMs, etc.
<b>Device Model</b>	Select the device model from the drop-down list.
<b>Firmware Version</b>	Select the firmware version from the drop-down list.
<b>HA Cluster</b>	Select if the device is part of a high availability cluster.
<b>Serial Number</b>	Enter the device serial number. This value must match the device model selected. When HA Cluster is enabled, you can enter the serial numbers of all members of the cluster.
<b>Disk Log Quota (min. 100MB)</b>	Enter the disk log quota in MB. The quota defines the amount of disk space to use for log files, archives, and the SQL database. This option is only available for certain device types.
<b>When Allocated Disk Space is Full</b>	Select to overwrite the oldest logs or to stop logging when the allocated disk space is full.

<b>Device Permissions</b>	Select the device permissions from: <i>Logs</i> , <i>DLP Archive</i> , <i>Quarantine</i> , and <i>IPS Packet Log</i> .
<b>Other Device Information</b>	Enter other device information (optional), including: <i>Company/Organization</i> , <i>Contact</i> , <i>City</i> , <i>Province/State</i> , and <i>Country</i> .

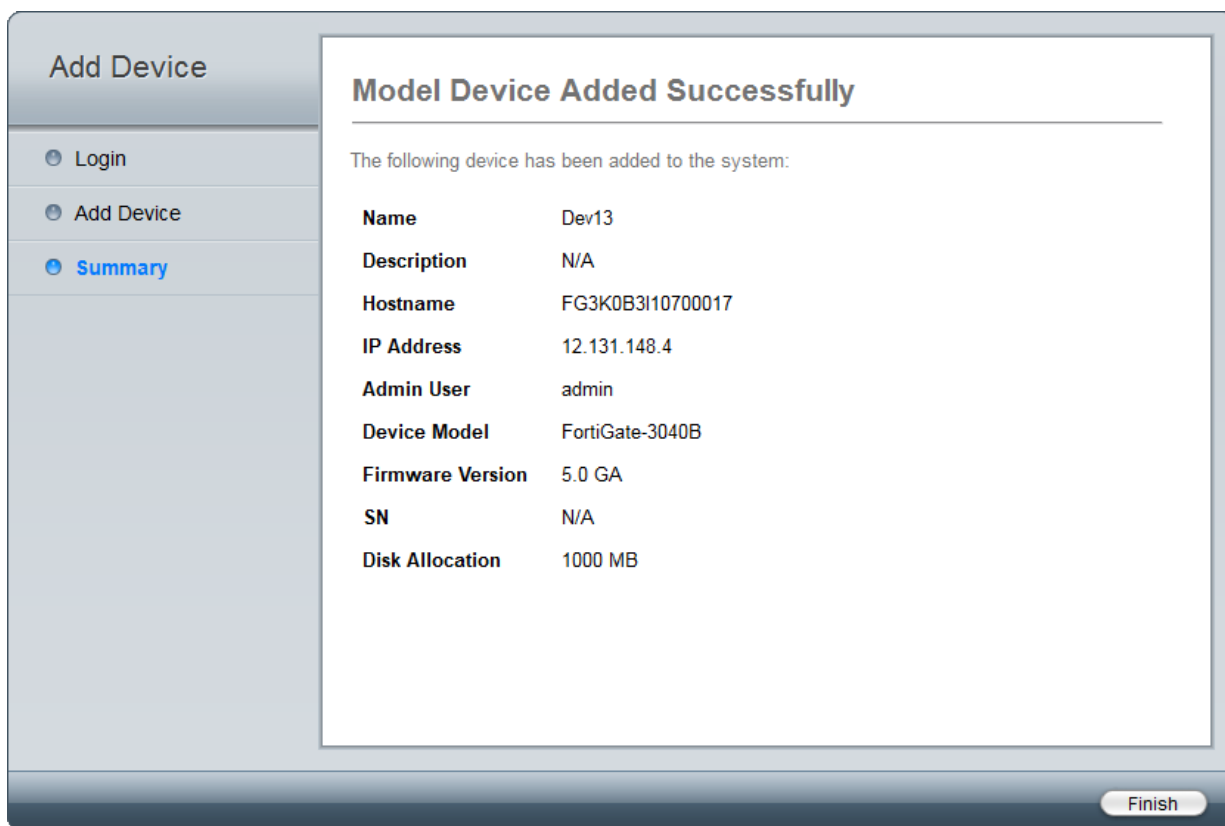
5. Select *Next* to proceed to the next add device page.

The screenshot shows a web-based 'Add Device' interface. On the left is a sidebar with a 'Login' button and a list of options: 'Add Device' (highlighted in blue), and 'Summary'. The main content area is titled 'Add Device' and displays the following information:

- Name:** Dev13
- IP Address:** 12.131.148.4
- Status:** A progress bar is shown at 75% completion. Below the bar, a list of tasks is displayed with their status:
  - ✓ Creating device database
  - ✓ Retrieving high availability status
  - ⚙ Initializing configuration database
  - ✓ Updating group membership

At the bottom right of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'.

6. After the device has been created successfully, select *Next* to proceed to the summary page.



7. Select *Finish* to add the device model.

**To edit a device:**

1. In the *Device Manager* tab, in the tree menu, select the group that contains the device you need to edit.
2. In the content pane, right-click on the on the device and select *Edit* from the right-click menu. The *Edit Device* dialog box opens.

Edit Device FGT60C3G11022613 X

Edit Device

Name	<input style="width: 90%;" type="text" value="FGT60C3G110"/>		
Description	<div style="border: 1px solid #ccc; height: 40px; width: 100%;"></div>		
Company/Organization	<input style="width: 90%;" type="text"/>		
Country	<input style="width: 90%;" type="text"/>		
Province/State	<input style="width: 90%;" type="text"/>		
City	<input style="width: 90%;" type="text"/>		
Contact	<input style="width: 90%;" type="text"/>		
IP Address	<input style="width: 90%;" type="text" value="10.2.115.61"/>		
Admin User	<input style="width: 90%;" type="text" value="admin"/>		
Password	<input style="width: 90%;" type="password"/>		
Device Information:			
Serial Number	FGT60C3G11022613		
Device Model:	FortiGate-60C		
Firmware Version:	FortiGate 5.2.0,build0571 (Interim)		
Connected Interface:	wan2		
HA Mode	Unknown		
Disk Log Quota (min. 100MB)	<input style="width: 80%;" type="text" value="0"/>	MB	(Total additional 32,635 MB Available)
When Allocated Disk Space is Full	<input checked="" type="radio"/> Overwrite Oldest Logs <input type="radio"/> Stop Logging		
Secure Connection	<input checked="" type="checkbox"/>		
ID	<input style="width: 90%;" type="text" value="FGT60C3G11022613"/>		
Pre-Shared Key	<input style="width: 90%;" type="password"/>		
Device Permissions	<input checked="" type="checkbox"/> Logs <input type="checkbox"/> DLP Archive <input type="checkbox"/> Quarantine <input type="checkbox"/> IPS Packet Log		
Manage FortiAP	<input type="radio"/> Per Device <input checked="" type="radio"/> Centrally		
Manage FortiClient	<input checked="" type="radio"/> Per Device <input type="radio"/> Centrally		
<input style="background-color: #4f81bd; color: white; padding: 5px 15px; border: none;" type="button" value="OK"/> <input style="background-color: #ccc; padding: 5px 15px; border: 1px solid #ccc; margin-left: 10px;" type="button" value="Cancel"/>			

3. Edit the following information as needed:

<b>Name</b>	The name of the device.
<b>Description</b>	Descriptive information about the device.
<b>Company/Organization</b>	Company or organization information.
<b>Country</b>	Enter the country.

<b>Province/State</b>	Enter the province or state.
<b>City</b>	Enter the city.
<b>Contact</b>	Enter the contact name.
<b>IP Address</b>	The IP address of the device.
<b>Admin User</b>	The administrator username.
<b>Password</b>	The administrator password.
<b>Device Information</b>	Information about the device, including serial number, device model, firmware version, connected interface.
<b>HA Cluster</b>	Select if the device is part of a high availability cluster.
<b>Serial No.</b>	When HA Cluster is enabled, you can enter the serial numbers of all members of the cluster.
<b>Disk Log Quota (min. 100MB)</b>	The amount of disk space that logs, archives, and the SQL database are allowed to use, in MB.
<b>When Allocated Disk Space is Full</b>	The action for the system to take when the disk log quota is filled, either <i>Overwrite Oldest Logs</i> , or <i>Stop Logging</i> .
<b>Secure Connection</b>	Select check box to enable this feature. Secure Connection secures Odette File Transfer Protocol (OFTP) traffic through an IPsec tunnel.
<b>ID</b>	The device serial number.
<b>Pre-Shared Key</b>	The pre-shared key for the IPsec connection between the FortiGate and FortiAnalyzer.
<b>Device Permissions</b>	The device's permissions. Select any of: <i>Logs</i> , <i>DLP Archive</i> , <i>Quarantine</i> , and <i>IPS Packet Log</i> .

4. Select **OK** to finish editing the device.

#### To delete a device or VDOM:

1. In the *Device Manager* tab, in the tree menu, select the group that contains the device or VDOM you need to delete.
2. In the content pane, right-click on the on the device or VDOM and select **Delete** in the right-click menu.
3. Select **OK** in the confirmation window to delete the device or VDOM.

## Unregistered devices

In FortiAnalyzer v5.2.0 and later, the `config system global set unregister-pop-up` command is disabled by default. When a device is configured to send logs to FortiAnalyzer, the unregistered device table will not be displayed. Instead, a new entry named *Unregistered Devices* will appear in the *Device Manager* tab tree menu. You can then add devices to specific ADOMs or delete devices using the toolbar buttons or right-click menu.

## Device reports

You can view, download, and delete device reports in the *Device Manager* content pane. Selecting a device or VDOM in the tree menu will display all reports associated with that device or VDOM in the content pane. For more information, see [View report tab on page 194](#).

### To view latest reports from the Device Manager tab:

1. In the *Device Manager* tab select the ADOM that contains the device whose reports you would like to view from the drop-down list.
2. Select the device or VDOM from the tree menu.
3. The report history is shown in the content pane, showing a list of all the reports that have been run for that device or VDOM.

Menu ▾ FGT_1240B: Report		
Report Name	Format	Completion Time/Status
Websites - Top 500 Websites Visited by Users (Bandwidth)-2014-07-28-0000	HTML PDF	2014/07/28 00:00
Admin and System Events Report-2014-07-23-1144	HTML PDF	2014/07/23 11:45
Websites - Top 500 Websites Visited by Users (Bandwidth)-2014-07-21-0000	HTML PDF	2014/07/21 00:00
Application and Risk Analysis-2014-04-30-1032	HTML PDF	2014/04/30 10:32
Application and Risk Analysis-2014-04-24-1321	HTML PDF	2014/04/24 13:35
Detailed Application Usage and Risk-2014-04-24-1320	HTML PDF	2014/04/24 13:21
Detailed Application Usage and Risk-2014-04-24-1310	HTML PDF	2014/04/24 13:20
Email Report-2014-04-24-1309	HTML PDF	2014/04/24 13:10
IPS Report-2014-04-24-1309_001	HTML PDF	2014/04/24 13:09
IPS Report-2014-04-24-1309	HTML PDF	2014/04/24 13:09
IPS Report-2014-04-24-1308	HTML PDF	2014/04/24 13:09
Threat Report-2014-04-24-1304	HTML PDF	2014/04/24 13:08
User Report-2014-04-24-1255	HTML PDF	2014/04/24 13:04
User Security Analysis-2014-04-24-1255	HTML PDF	2014/04/24 12:55
VPN Report-2014-04-24-1253	HTML PDF	2014/04/24 12:55
WiFi Network Summary-2014-04-24-1248	HTML PDF	2014/04/24 12:53
Wireless PCI Compliance-2014-04-24-1248	HTML PDF	2014/04/24 12:48
Client Reputation-2014-04-24-1244	HTML PDF	2014/04/24 12:48
Admin and System Events Report-2014-04-24-1244	HTML PDF	2014/04/24 12:44
Bandwidth and Applications Report-2014-04-04-1723	HTML	2014/04/04 17:23

25 ▾ Items per Page <<First <Prev 1 2 3 >Next >>Last Go to Page 1 ▾ of 4

In the *Format* column, select *HTML* to display the report in a browser window, or select *PDF* to download the report as a PDF file to your management computer.

## Log forwarding

You can configure log forwarding in the Device Manager tab. You can configure to forward logs for selected devices to another FortiAnalyzer, a syslog server, or a Common Event Format (CEF) server.

### To enable log forwarding:

1. Go to *System Settings > Dashboard*.
2. In the *CLI Console* widget enter the following CLI commands:

```
config system admin setting
```

```

set show-log-forwarding enable
end

```

### To configure log forwarding:

1. Go to the *Device Manager* tab and select *Log Forwarding*.
2. Select *Create New* from the toolbar. The *Add log forwarding* page is displayed.

**Add log forwarding**

Server Name

Remote Server Type ☒ FortiAnalyzer ☐ SysLog ☐ Common Event Format(CEF)

Server IP

Select Devices

☒ Enable Log Aggregation

Password

Confirm Password

Upload Daily at

☒ Enable Realtime Forwarding

Level

Server Port

3. Configure the following settings:

<b>Server Name</b>	Enter a name to identify the remote server.
<b>Remote Server Type</b>	Select the remote server type. Select one of the following: <i>FortiAnalyzer</i> , <i>Syslog</i> , <i>Common Event Format (CEF)</i> .
<b>Server IP</b>	Enter the server IP address.
<b>Select Devices</b>	Select the add icon to select devices. Select devices and select <i>OK</i> to add the devices.
<b>Enable Log Aggregation</b>	Select to enable log aggregation. This option is only available when <i>Remote Server Type</i> is set to <i>FortiAnalyzer</i> .
<b>Password</b>	Enter the server password.
<b>Confirm Password</b>	Re-enter the server password.
<b>Upload Daily at</b>	Select a time from the drop-down list.
<b>Enable Real-time Forwarding</b>	Select to enable real-time log forwarding.

<b>Level</b>	Select the logging level from the drop-down list. Select one of the following: <i>Emergency, Alert, Critical, Error, Warning, Notification, Information, or Debug.</i>
<b>Server Port</b>	Enter the server port. When <i>Remote Server Type</i> is <i>FortiAnalyzer</i> , the port cannot be changed. The default port is 514.

4. Select *OK* to save the setting.

## Disk space allocation

In FortiAnalyzer, the system reserves 5% to 25% disk space for system usage and unexpected quota overflow. Only 75% to 95% disk space is available for allocation to devices.

Reports are stored in the reserved space.

Disk Size	Reserved Disk Quota
<b>Small Disk(less than 500GB)</b>	The system reserves either 20% or 50GB of disk space, which ever is smaller.
<b>Medium Disk(less than 1000GB)</b>	The system reserves either 15% or 100GB of disk space, which ever is smaller.
<b>Large Disk(less than 3000GB)</b>	The system reserves either 10% or 200GB of disk space, which ever is smaller.
<b>Very Large Disk(less than 5000GB)</b>	The system reserves either 5% or 500GB of disk space, which ever is smaller.
<b>Note:</b> The RAID level selected will impact the determination of the disk size and reserved disk quota level. For example, a FAZ-1000C with four 1TB hard drives configured in RAID 10 will be considered a large disk and 10% or 200GB disk space will be reserved.	

## Log arrays in FortiAnalyzer v5.2.0 and later

The concept of log array changed between FortiAnalyzer v5.0.6 and FortiAnalyzer v5.2.0.

In FortiAnalyzer v5.0.6 and earlier, log arrays can be treated as a single device which has its own SQL database. The size of its database is enforced by the log array quota.

In FortiAnalyzer v5.2.0 and later, log array is only a grouping concept which is used to display logs or generate reports for a group of devices. It has no SQL database and does not occupy additional disk space.



# System Settings

The *System Settings* tab enables you to manage and configure system options for the FortiAnalyzer unit. This includes the basic network settings to connect the device to the corporate network, the configuration of administrators and their access privileges, and managing and updating firmware for the device.



Additional configuration options and short-cuts are available using the right-click menu. Right-click the mouse on different navigation panes on the GUI page to access these options.

The *System Settings* tab provides access to the following menus and sub-menus:

<a href="#">Dashboard</a>	Select this menu to configure, monitor, and troubleshoot your FortiAnalyzer device. Dashboard widgets include: System Information, License Information, Unit Operation, System Resources, Alert Message Console, CLI Console, Log Receive Monitor, Logs/Data Received, and Statistics.
<a href="#">All ADOMs</a>	Select this menu to create new ADOMs and monitor all existing ADOMs.
<a href="#">RAID management</a>	Select this menu to configure and monitor your Redundant Array of Independent Disks (RAID) setup. This page displays information about the status of RAID disks as well as what RAID level has been selected. It also displays how much disk space is currently consumed.
<a href="#">Network</a>	Select this menu to configure your FortiAnalyzer interfaces. You can also view the IPv4/IPv6 Routing Table and access Diagnostic Tools.
<a href="#">Admin</a>	Select this menu to configure administrator user accounts, as well as configure global administrative settings for the FortiAnalyzer unit. <ul style="list-style-type: none"><li>• <a href="#">Administrator</a></li><li>• <a href="#">Profile</a></li><li>• <a href="#">Remote authentication server</a></li><li>• <a href="#">Administrator settings</a></li></ul>
<a href="#">Certificates</a>	Select this menu to configure the following: <ul style="list-style-type: none"><li>• <a href="#">Local certificates</a></li><li>• <a href="#">CA certificates</a></li><li>• <a href="#">Certificate revocation lists</a></li></ul>
<a href="#">Event log</a>	Select this menu to view FortiAnalyzer event log messages. On this page you can: <ul style="list-style-type: none"><li>• Download the logs in <code>.log</code> or <code>.csv</code> formats</li><li>• View raw logs or logs in a formatted table</li><li>• Browse the event log, FDS upload log, and FDS download log</li></ul>

**Task monitor**

Select this menu to monitor FortiAnalyzer tasks.

**Advanced**

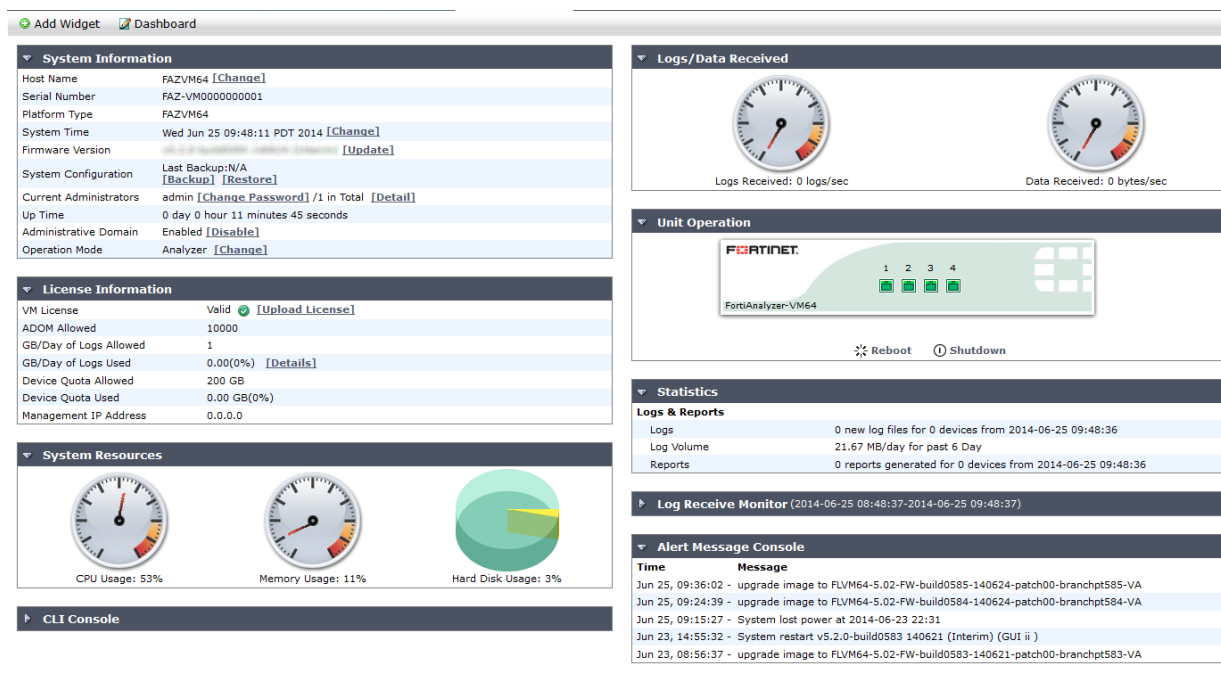
Select to configure advanced settings.

- [SNMP](#)
- [Mail server](#)
- [Syslog server](#)
- [Meta fields](#)
- [Device log settings](#)
- [File management](#)
- [Advanced settings](#)

## Dashboard

When you select the *System Settings* tab, it automatically opens at the *System Settings > Dashboard* page.

The *Dashboard* page displays widgets that provide performance and status information and enable you to configure basic system settings. The dashboard also contains a CLI widget that enables you to use the command line through the GUI. These widgets appear on a single dashboard.



The following widgets are available:

<b>System Information</b>	Displays and allow editing of some basic information about the FortiAnalyzer system, including host name, serial number, platform type, system time, firmware version, system configuration, current administrators, up time, administrative domains, and operation mode. From this widget you can manually update the FortiAnalyzer firmware to a different release. For more information, see <a href="#">System Information widget on page 45</a> .
<b>License Information</b>	Displays the devices being managed by the FortiAnalyzer unit, the maximum numbers of devices allowed, the maximum number of ADOMs allowed, GB/Day of logs allowed, and GB/Day of logs used. FortiAnalyzer VM also includes device quota allowed, device quota used, and management IP address fields. For more information, see <a href="#">License Information widget on page 51</a> .
<b>Unit Operation</b>	Displays status and connection information for the ports of the FortiAnalyzer unit. It also enables you to shutdown and reboot the FortiAnalyzer unit. For more information, see <a href="#">Unit Operation widget on page 52</a> .
<b>System Resources</b>	Displays the real-time and historical usage status of the CPU, memory and hard disk. For more information, see <a href="#">System Resources widget on page 53</a> .
<b>Alert Message Console</b>	Displays log-based alert messages for both the FortiAnalyzer unit itself and connected devices. For more information, see <a href="#">Alert Messages Console widget on page 55</a> .
<b>CLI Console</b>	Opens a terminal window that enables you to configure the FortiAnalyzer unit using CLI commands directly from the GUI. For more information, see <a href="#">CLI Console widget on page 56</a> .
<b>Log Receive Monitor</b>	Displays a real-time graph of logs received. You can select to view data per device or per log type. For more information, see <a href="#">Log Receive Monitor widget on page 57</a> .
<b>Logs/Data Received</b>	Displays the real-time or historical usage status of logs received and data received. For more information, see <a href="#">Logs/Data Received widget on page 58</a> .
<b>Statistics</b>	Displays statistics for logs and reports since last reset. For more information, see <a href="#">Statistics widget on page 60</a> .

## Customizing the dashboard

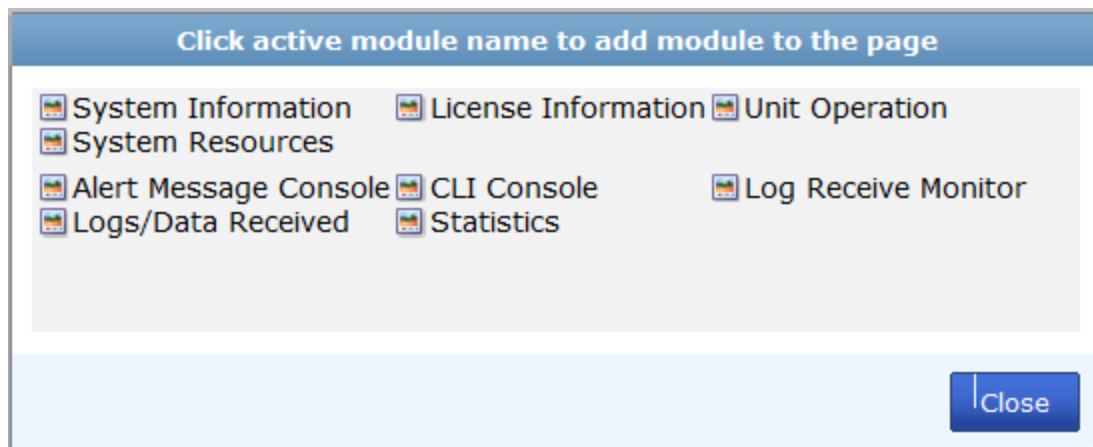
The FortiAnalyzer system settings dashboard is customizable. You can select which widgets to display, where they are located on the page, and whether they are minimized or maximized.

### To move a widget

Position your mouse cursor on the widget's title bar, then click and drag the widget to its new location.

### To add a widget

In the dashboard toolbar, select *Add Widget*, then select the names of widgets that you want to show. To remove a widget, select the *Close* icon in the widget title bar.



### To reset the dashboard

In the dashboard toolbar, select *Dashboard > Reset Dashboards*, and select *OK* in the confirmation dialog box. The dashboards will be reset to the default view, which includes everything except the *CLI Console* widget.

### To see the available options for a widget

Position your mouse cursor over the widget's title bar. Options vary slightly from widget to widget, but always include options to close or show/hide the widget.

The following table lists the widget options.

<b>Show/Hide arrow</b>	Display or minimize the widget.
<b>Widget Title</b>	The name of the widget.
<b>More Alerts</b>	Show the <i>Alert Messages</i> dialog box. This option appears only in the <i>Alert Message Console</i> widget.
<b>Edit</b>	Select to change settings for the widget. This option appears only in certain widgets.
<b>Detach</b>	Detach the <i>CLI Console</i> widget from the dashboard and open it in a separate window. This option appears only in the <i>CLI Console</i> widget.
<b>Reset</b>	Select to reset the information shown in the widget. This option appears only in the <i>Statistics</i> widget.
<b>Refresh</b>	Select to update the displayed information.
<b>Close</b>	Select to remove the widget from the dashboard. You will be prompted to confirm the action.

## System Information widget

The *System Information* widget, shown below, displays the current status of the FortiAnalyzer unit and enables you to configure basic system settings.

System Information	
Host Name	FMG-VM0A11000137 <a href="#">[Change]</a>
Serial Number	FMG-VM0A11000137
Platform Type	FMG-VM64-HV
HA Status	Standalone
System Time	Mon Jun 02 16:24:18 PDT 2014 <a href="#">[Change]</a>
Firmware Version	6.2.0 Build 10000000000000000000 <a href="#">[Update]</a>
System Configuration	Last Backup: Fri May 9 11:44:58 2014 <a href="#">[Backup]</a> <a href="#">[Restore]</a> <a href="#">[System Checkpoint]</a>
Current Administrators	admin <a href="#">[Change Password]</a> / 2 in Total <a href="#">[Detail]</a>
Up Time	0 day 0 hour 6 minutes 9 seconds
Administrative Domain	Enabled <a href="#">[Disable]</a>
FortiAnalyzer Features	Enabled <a href="#">[Disable]</a>

The following information is available on this widget:

<b>Host Name</b>	The identifying name assigned to this FortiAnalyzer unit. For more information, see <a href="#">Changing the host name on page 46</a> .
<b>Serial Number</b>	The serial number of the FortiAnalyzer unit. The serial number is unique to the FortiAnalyzer unit and does not change with firmware upgrades. The serial number is used for identification when connecting to the FortiGuard server.
<b>Platform Type</b>	This field is displayed for FortiAnalyzer VM and shows the VM platform type on which FortiAnalyzer is installed.
<b>System Time</b>	The current date, time, and time zone on the FortiAnalyzer internal clock or NTP server. For more information, see <a href="#">Setting the date and time on page 47</a> .
<b>Firmware Version</b>	The version number and build number of the firmware installed on the FortiAnalyzer unit. To update the firmware, you must download the latest version from the Customer Service & Support portal at <a href="https://support.fortinet.com">https://support.fortinet.com</a> . Select <i>Update</i> and select the firmware image to load from your management computer. For more information, see the <a href="#">FortiAnalyzer Release Notes</a> in the <a href="#">Fortinet Document Library</a> .

<b>System Configuration</b>	The date of the last system configuration backup. The following actions are available: Select <i>Backup</i> to backup the system configuration to a file; see <a href="#">Backing up the system on page 48</a> . Select <i>Restore</i> to restore the configuration from a backup file; see <a href="#">Restoring the configuration on page 49</a> .
<b>Current Administrators</b>	The number of administrators that are currently logged in. The following actions are available: Select <i>Change Password</i> to change your own password. Select <i>Details</i> to view the session details for all currently logged in administrators. See <a href="#">Monitoring administrator sessions on page 75</a> for more information.
<b>Up Time</b>	The duration of time the FortiAnalyzer unit has been running since it was last started or restarted.
<b>Administrative Domain</b>	Displays whether ADOMs are enabled, and allows for enabling and disabling ADOMs. See <a href="#">Administrative Domains on page 26</a> for more information.
<b>Operation Mode</b>	Display and change the current operating mode. Note that not all models support all operation modes. See <a href="#">Changing the operation mode on page 50</a> .

## Changing the host name

The host name of the FortiAnalyzer unit is used in several places.

- It appears in the *System Information* widget on the *Dashboard*. For more information about the *System Information* widget, see [System Information widget on page 45](#).
- It is used in the command prompt of the CLI.
- It is used as the SNMP system name. .

The *System Information* widget and the `get system status` CLI command will display the full host name. However, if the host name is longer than 16 characters, the CLI and other places display the host name in a truncated form ending with a tilde ( ~ ) to indicate that additional characters exist, but are not displayed.

For example, if the host name is Fortinet1234567890, the CLI prompt would be `Fortinet123456~#`.

### To change the host name:

1. Go to *System Settings > Dashboard*.
2. In the *System Information* widget, in the *Host Name* field, select *Change*. The *Change Host Name* dialog box appears.

**Change Host Name**

Host Name

3. In the *Host Name* field, type a new host name. The host name may be up to 35 characters in length. It may include US-ASCII letters, numbers, hyphens, and underscores. Spaces and special characters are not allowed.
4. Select *OK* to save the setting.

### Setting the date and time

You can either manually set the FortiAnalyzer system time and date, or configure the FortiAnalyzer unit to automatically keep its system time correct by synchronizing with a Network Time Protocol (NTP) server.



For many features to work, including scheduling, logging, and SSL-dependent features, the FortiAnalyzer system time must be accurate.

#### To configure the date and time:

1. Go to *System Settings > Dashboard*.
2. In the *System Information* widget, in the *System Time* field, select *Change*. The *Change System Time Settings* dialog box appears.

**Change System Time Settings**

**System Time**

**Time Zone**

☒ Automatically adjust clock for daylight saving changes

☐ **Set Time**

Hour  Minute  Second   
Month  Day  Year

☒ **Synchronize with NTP Server**

Syn Interval  mins

Server

Server

- Configure the following settings to either manually set the system time, or to automatically synchronize the FortiAnalyzer unit's clock with an NTP server:

<b>System Time</b>	The date and time according to the FortiAnalyzer unit's clock at the time that this tab was loaded, or when you last selected the <i>Refresh</i> button for the <i>System Information</i> widget.
<b>Time Zone</b>	Select the time zone in which the FortiAnalyzer unit is located and whether or not the system automatically adjusts for daylight savings time.
<b>Set Time</b>	Select this option to manually set the date and time of the FortiAnalyzer unit's clock, then select the <i>Hour</i> , <i>Minute</i> , <i>Second</i> , <i>Year</i> , <i>Month</i> , and <i>Day</i> fields before you select <i>OK</i> .
<b>Synchronize with NTP Server</b>	Select this option to automatically synchronize the date and time of the FortiAnalyzer unit's clock with an NTP server, then configure the <i>Syn Interval</i> and <i>Server</i> fields before you select <i>OK</i> . Select the add icon to add multiple NTP servers. Select the delete icon to remove servers.
<b>Sync Interval</b>	Enter how often in minutes the FortiAnalyzer unit should synchronize its time with the NTP server. For example, entering 1440 causes the Fortinet unit to synchronize its time once a day.
<b>Server</b>	Enter the IP address or domain name of an NTP server. To find an NTP server that you can use, go to <a href="http://www.ntp.org">http://www.ntp.org</a> .

- Select *OK* to apply your changes.

## Updating the system firmware

To take advantage of the latest features and fixes, the device firmware can be upgraded. For information about a specific firmware version, see the [FortiAnalyzer Release Notes](#) in the [Fortinet Document Library](#).

## Backing up the system

Fortinet recommends that you back up your FortiAnalyzer configuration to your management computer on a regular basis to ensure that, should the system fail, you can quickly get the system back to its original state with minimal effect to the network. You should also perform a back up after making any changes to the FortiAnalyzer configuration or settings that affect the log devices.

You can perform backups manually. Fortinet recommends backing up all configuration settings from your FortiAnalyzer unit before upgrading the FortiAnalyzer firmware.

### To back up the FortiAnalyzer configuration:

- Go to *System Settings > Dashboard*.
- In the *System Information* widget, in the *System Configuration* field, select *Backup*. The *Backup* dialog box appears.



3. Configure the following settings:

<b>Encryption</b>	Select to encrypt the backup file with a password. The password is required to restore the configuration. The check box is selected by default.
<b>Password</b>	Select a password. This password is used to encrypt the backup file, and is required to restore the file. (This option is available only when the encryption check box is selected.)
<b>Confirm Password</b>	Re-enter the password to confirm it.

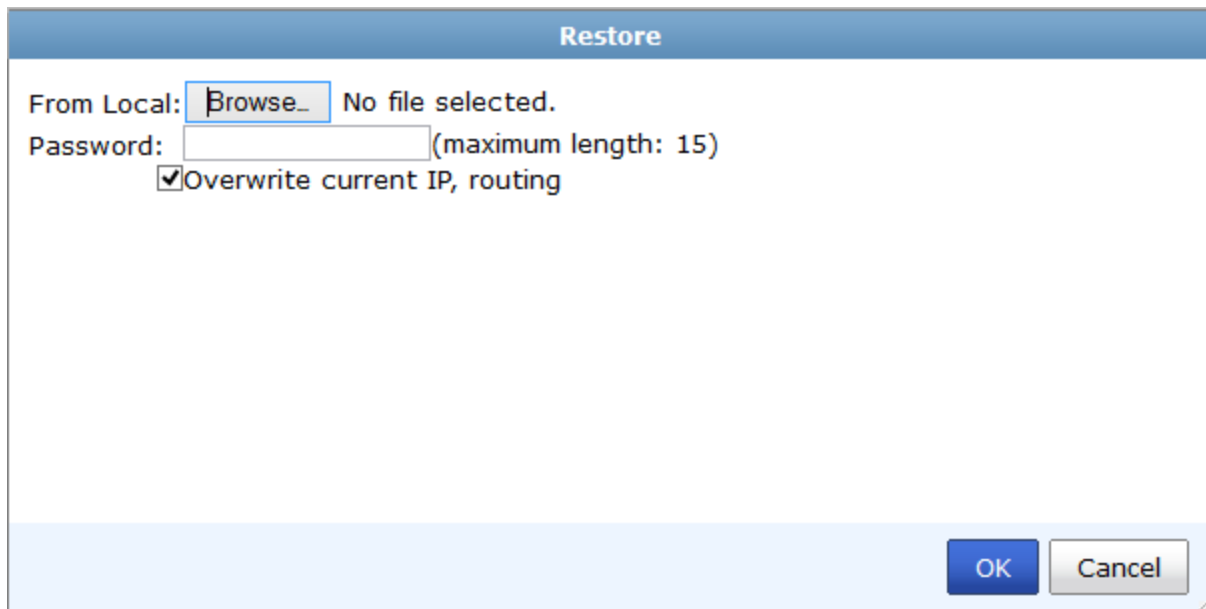
4. If you want to encrypt the backup file, select the *Encryption* check box, then enter and confirm the password you want to use.
5. Select *OK* and save the backup file on your management computer.

## Restoring the configuration

You can use the following procedure to restore your FortiAnalyzer configuration from a backup file on your management computer.

### To restore the FortiAnalyzer configuration:

1. Go to *System Settings > Dashboard*.
2. In the *System Information* widget, in the *System Configuration* field, select *Restore*. The *Restore* dialog box appears. The *Restore* dialog box appears.



The image shows a 'Restore' dialog box with a blue header. It contains the following fields and options:

- From Local:** A button labeled 'Browse...' followed by the text 'No file selected.'
- Password:** A text input field with a placeholder '(maximum length: 15)'
- Overwrite current IP, routing:** A checked checkbox.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

3. Configure the following settings:

<b>From Local</b>	Select <i>Browse</i> to find the configuration backup file you want to restore on your management computer.
<b>Password</b>	Enter the encryption password, if applicable.
<b>Overwrite current IP, routing</b>	Select the check box if you need to overwrite the current IP and routing settings.

4. Select *OK* to proceed with the configuration restore.

## Changing the operation mode

The FortiAnalyzer unit has two operation modes: analyzer and collector. For more information, see [Operation modes on page 14](#).



Not all FortiAnalyzer models support all operation modes.

### To change the operation mode:

1. On the FortiAnalyzer unit, go to *System Settings > Dashboard*.
2. In the *System Information* widget, in the *Operation Mode* field, select *Change*. The *Change Operation Mode* dialog box opens.

Change Operation Mode

Please choose an operation mode:  
☒ Analyzer ☐ Collector

OK

Cancel

3. Configure the following settings:

<b>Analyzer</b>	Select to configure FortiAnalyzer in analyzer mode.
<b>Collector</b>	Select to configure FortiAnalyzer in collector mode.

4. Select **OK** to change the operation mode.

## License Information widget

The License Information widget shows information about features that vary by a purchased license or contract, such as FortiGuard subscription services. It also displays how many devices are connected or attempting to connect to the FortiAnalyzer unit.




The information displayed in the License Information widget also varies between physical and VM FortiAnalyzer units.

Following is a License Information widget for a physical FortiAnalyzer unit.

▼ License Information	
Total Number of Devices	22
Number of Devices Allowed	100
GB/Day of Logs Allowed	5
GB/Day of Logs Used	0.00(0%) <a href="#">[Hide]</a>
Today(Jun 25, 2014)	0.00 GB
Jun 24, 2014	0.00 GB
Jun 23, 2014	0.00 GB
Jun 22, 2014	0.00 GB
Jun 21, 2014	0.00 GB
Jun 20, 2014	0.00 GB
Jun 19, 2014	0.00 GB

The VM license information widget displays additional information such as the VM license information and management IP address. You can also upload a VM license here.

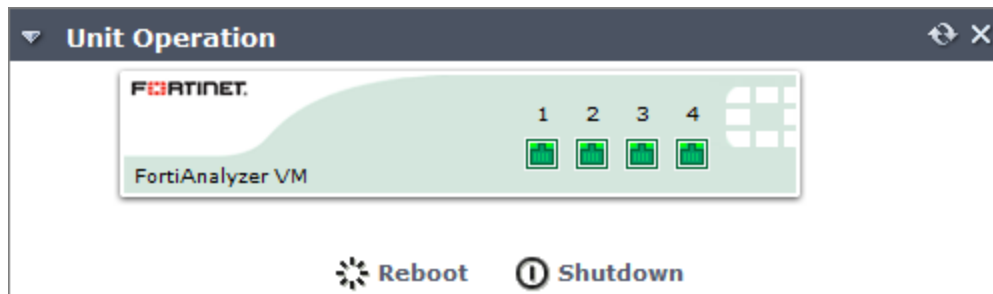
▼ License Information	
VM License	Valid  <a href="#">[Upload License]</a>
ADOM Allowed	10000
GB/Day of Logs Allowed	1
GB/Day of Logs Used	0.00(0%) <a href="#">[Hide]</a>
Today(Jun 25, 2014)	0.00 GB
Jun 24, 2014	0.00 GB
Jun 23, 2014	0.03 GB
Jun 22, 2014	0.04 GB
Jun 21, 2014	0.04 GB
Jun 20, 2014	0.02 GB
Device Quota Allowed	200 GB
Device Quota Used	0.00 GB(0%)
Management IP Address	0.0.0.0

#### To upload a FortiAnalyzer VM license:

1. Go to *System Settings > Dashboard*.
2. In the *License Information* widget, in the *VM License* field, select *Upload License*.
3. Browse to the VM license file on your management computer.
4. Select *OK* to load the license file.

## Unit Operation widget

The *Unit Operation* widget on the dashboard is a graphical representation of the FortiAnalyzer unit. It displays status and connection information for the ports on the FortiAnalyzer unit. It also enables you to quickly reboot or shutdown the FortiAnalyzer device.



The following information is available on this widget:

**Port numbers (vary depending on model)**

The image below the port name indicates its status by its color. Green indicates the port is connected. Grey indicates there is no connection. For more information about a port's configuration and throughput, position your mouse over the icon for that port. A pop-up box displays the full name of the interface, the IP address and netmask, the status of the link, the speed of the interface, and the number of sent and received packets.

**Reboot**

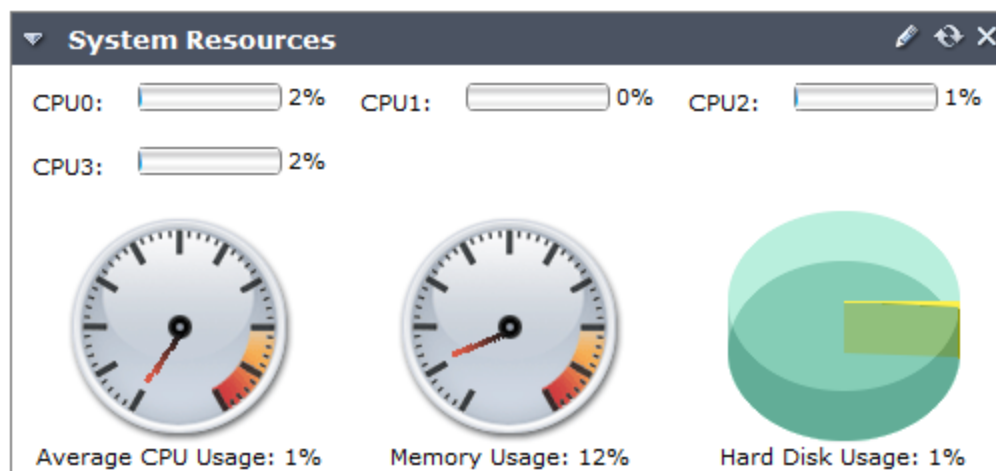
Select to restart the FortiAnalyzer unit. You are prompted to confirm before the reboot is executed.

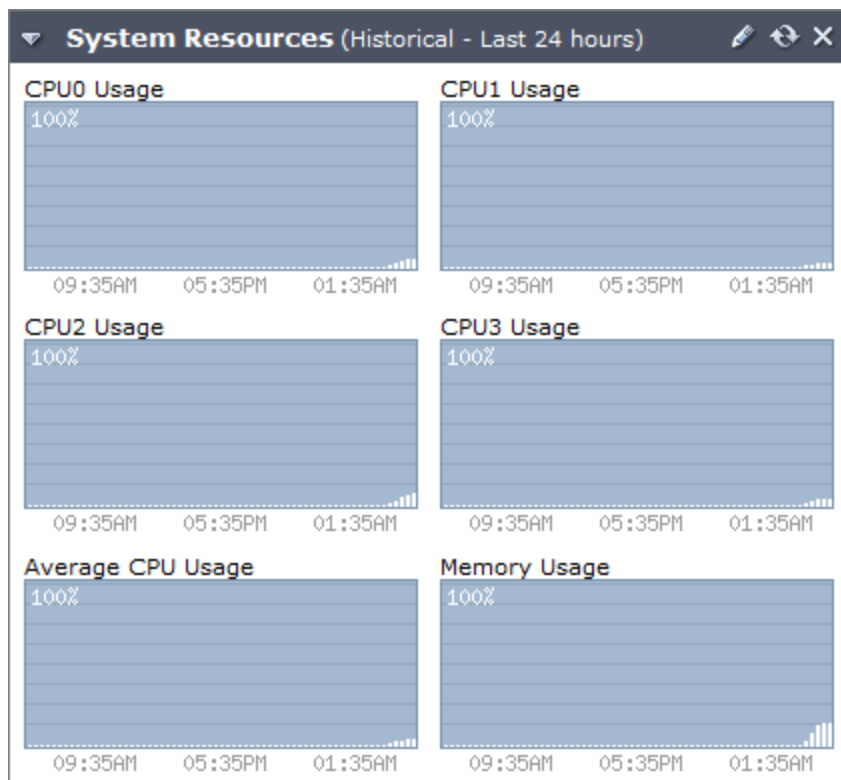
**Shutdown**

Select to shutdown the FortiAnalyzer unit. You are prompted to confirm before the shutdown is executed.

## System Resources widget

The *System Resources* widget on the dashboard displays the usage status of the CPU, memory and hard disk. You can view system resource information in real-time or historical format, and either the average CPU usage or the usage for each individual processor core.





The following information is available:

<b>CPUx Usage</b>	The current CPU utilization for each processor core. The GUI displays CPU usage for core processes only. CPU usage for management processes (for example, for HTTPS connections to the GUI) is excluded.
<b>Average CPU Usage</b>	The current average CPU utilization. The GUI displays CPU usage for core processes only. CPU usage for management processes (for example, for HTTPS connections to the GUI) is excluded.
<b>Memory Usage</b>	The current memory utilization. The GUI displays memory usage for core processes only. Memory usage for management processes (for example, for HTTPS connections to the GUI) is excluded.
<b>Hard Disk Usage</b>	The current hard disk usage, shown on a pie chart as a percentage of total hard disk space. This item does not appear when viewing historical system resources.

#### To change the system resource widget display settings:

1. Go to *System Settings > Dashboard*.
2. In the System Resources widget, hover the mouse over the title bar and select the *Edit* icon. The *Edit System Resources Settings* dialog box appears.

3. You can configure the following settings:

<b>Multi-core CPU Display</b>	Select <i>Each Core</i> to view the CPU usage for each processor core (default). Select <i>Average</i> to view only the average CPU usage.
<b>View Type</b>	Select <i>Real Time</i> to view the most current information about system resources (default). Select <i>Historical</i> to view historical information about system resources.
<b>Time Period</b>	Select one of the following: <i>Last 10 minutes</i> , <i>Last 1 hour</i> , or <i>Last 24 hours</i> . This option is only available when <i>Historical</i> is selected.
<b>Refresh Interval</b>	To automatically refresh the widget at intervals, enter a number between 10 and 240 seconds. To disable the refresh interval feature, enter 0.

4. Select *OK* to apply your settings.

## Alert Messages Console widget

The *Alert Message Console* widget displays log-based alert messages for both the FortiAnalyzer unit itself and connected devices.

Alert messages help you track system events on your FortiAnalyzer unit such as firmware changes, and network events such as detected attacks. Each message shows the date and time that the event occurred.

Alert Message Console	
Time	Message
Sep 5, 09:25:18	System v5.0-build0222 130904 (Interim) restart to upgrade
Sep 5, 09:25:18	Firmware upgrade from v5.0-build0222 130904 (Interim) to 5.00-build0223-branchpt223
Sep 4, 12:50:18	System v5.0-build0221 130902 (Interim) restart to upgrade
Sep 4, 12:50:18	Firmware upgrade from v5.0-build0221 130902 (Interim) to 5.00-build0222-branchpt222
Sep 3, 15:07:49	Power 1 goes to online
Sep 3, 15:07:36	Power 1 goes to offline
Sep 3, 09:57:00	System v5.0-build0220 130829 (Interim) restart to upgrade
Sep 3, 09:57:00	Firmware upgrade from v5.0-build0220 130829 (Interim) to 5.00-build0221-branchpt221
Sep 2, 22:37:33	Power 2 goes to online
Sep 2, 22:37:20	Power 2 goes to offline

The widget displays only the most recent alerts. For a complete list of unacknowledged alert messages, select the *More Alerts* icon in the widget's title bar. A popup window appears. To clear the list, select *Clear Alert Messages*.

Alert Messages		
#	Time	Message
1	Jul 10, 16:28:13	System restart v5.0-build0200 130710 (GA Patch 3)
2	Jul 10, 16:28:13	Restore all settings
3	Jul 10, 16:21:02	System restart v5.0-build0200 130710 (GA Patch 3)
4	Jul 10, 16:15:23	System restart v5.0-build0200 130710 (GA Patch 3)
5	Jul 10, 15:22:19	System v5.0-build0199 130709 (Interim) restart to upgrade
6	Jul 10, 15:22:19	Firmware upgrade from v5.0-build0199 130709 (Interim) to 5.00-build0200-branchpt200 (Patch 3)
7	Jul 10, 09:11:46	System v5.0-build0198 130709 (Interim) restart to upgrade
8	Jul 10, 09:11:46	Firmware upgrade from v5.0-build0198 130709 (Interim) to 5.00-build0199-branchpt199
9	Jul 9, 17:30:05	System v5.0-build0198 130709 (Interim) restart to upgrade
10	Jul 9, 17:30:05	Firmware upgrade from v5.0-build0198 130709 (Interim) to 5.00-build0198-branchpt198
11	Jul 9, 17:07:57	System v5.0-build198 130709 (Interim) restart to upgrade
12	Jul 9, 17:07:57	Firmware upgrade from v5.0-build198 130709 (Interim) to 5.00-build0198-branchpt198

Clear Alert Messages
Close

Select the *Edit* icon in the title bar to open the *Edit Alert Message Console Settings* dialog box so that you can adjust the number of entries that are visible, and their refresh interval.

## CLI Console widget

The *CLI Console* widget enables you to enter CLI commands through the GUI without making a separate Telnet, SSH, or local console connection.



The *CLI Console* widget requires that your web browser support JavaScript.



To use the console, click within the console area. Doing so will automatically log you in using the same administrator account that you used to access the GUI. You can then enter commands by typing them. You can also copy and paste commands in to or out of the console.



The command prompt contains the host name of the Fortinet unit (by default, the model number such as Fortinet-800B #). To change the host name, see [Changing the host name on page 46](#).

For information on available CLI commands, see the [FortiAnalyzer CLI Reference](#).

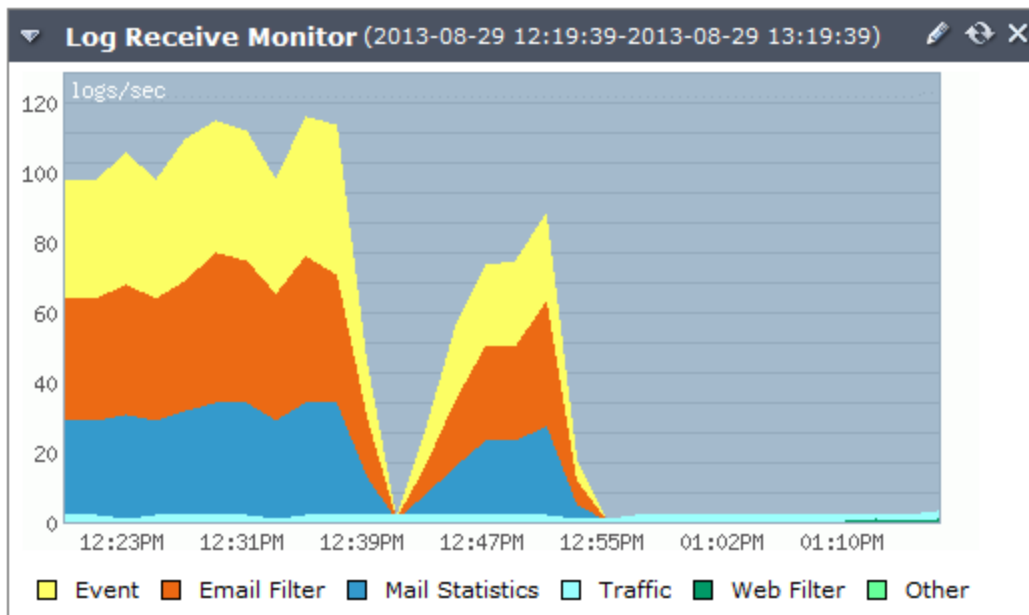
```
CLI Console
Connected

FMG-VM0A11000137 #
config      Configure object.
get         Get configuration.
show        Show configuration.
diagnose    Diagnose facility.
execute     Execute static commands.
exit        Exit CLI.

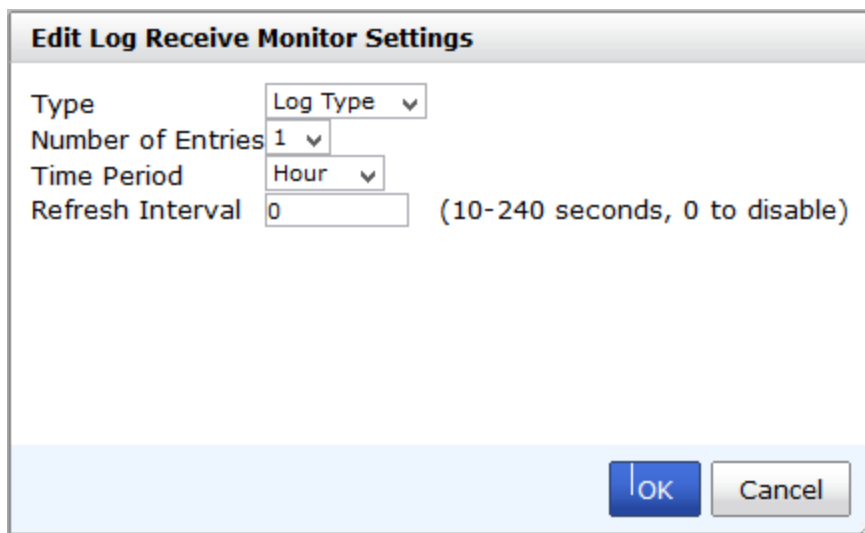
FMG-VM0A11000137 #
```

## Log Receive Monitor widget

The *Log Receive Monitor* widget displays the rate at which logs are received over time. You can select to display log data by log type or per device.



To configure settings for the widget, select *Edit* from the title bar.



**Edit Log Receive Monitor Settings**

Type: Log Type ▾

Number of Entries: 1 ▾

Time Period: Hour ▾

Refresh Interval: 0 (10-240 seconds, 0 to disable)

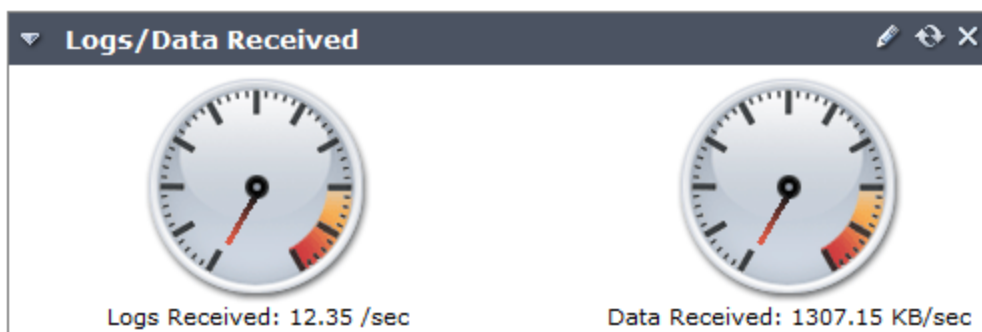
OK Cancel

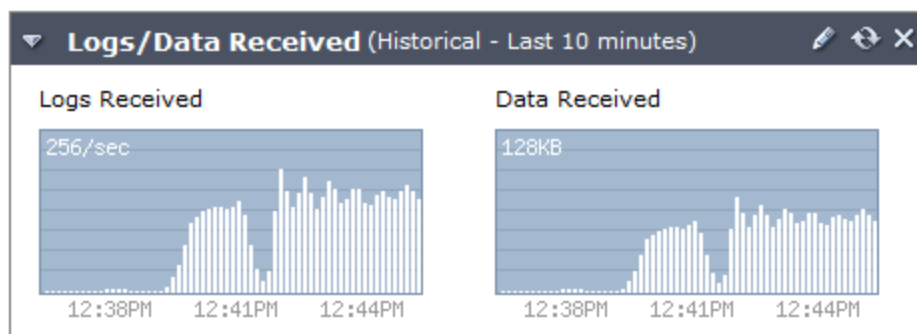
Configure the following settings:

<b>Type</b>	<p>From the drop-down menu, select either:</p> <ul style="list-style-type: none"> <li><b>Log Type:</b> Display the type of logs that are received from all registered devices separated into the following categories: <i>Event</i>, <i>Email Filter</i>, <i>Mail Statistics</i>, <i>Traffic</i>, <i>Web Filter</i>, and <i>Other</i>.</li> <li><b>Device:</b> Display the logs that received by each registered device separated into the top number of devices.</li> </ul>
<b>Number of Entries</b>	Select the number of either log types or devices shown in the widget's graph.
<b>Time Period</b>	Select one of the following time ranges over which to monitor the rate at which log messages are received: <i>Hour</i> , <i>Day</i> , <i>Week</i> .
<b>Refresh Interval</b>	Automatically refresh the widget. Enter a number between 10 and 240 seconds. To disable automatic refresh, enter 0.

## Logs/Data Received widget

The *Logs/Data Received* widget displays the rate over time of the logs and data, such as Traffic, Web Filter, and Event logs, received by the FortiAnalyzer unit.





The widget displays the following information:

<b>Logs Received</b>	Number of logs received per second.
<b>Data Received</b>	Volume of data received.

To configure settings for the widget, select *Edit* from the title bar.

The screenshot shows a dialog box titled "Edit Logs/Data Received Settings". It contains the following settings:
 

- View Type:** Radio buttons for "Historical" (selected) and "Real Time".
- Time Period:** A dropdown menu showing "Last 10 minutes".
- Refresh Interval:** A text input field containing "0", with a note "(10-240 seconds, 0 to disable)".

 At the bottom right are "OK" and "Cancel" buttons.

The following settings can be configured:

<b>View Type</b>	Select <i>Real Time</i> to view current information about system resources. Select <i>Historical</i> to view historical information.
<b>Time Period</b>	Select one of the following time ranges: <i>Last 10 Minutes</i> , <i>Last 1 Hour</i> , or <i>Last 24 Hours</i> .
<b>Refresh Interval</b>	Automatically refresh the widget. Enter a number between 10 and 240 seconds. To disable automatic refresh, enter 0.

## Statistics widget

The *Statistics* widget displays the numbers of sessions, volume of log files, and number of reports handled by the FortiAnalyzer unit.

The widget displays the following information:

<b>Logs</b>	The number of new log files received from a number of devices since the statistics were last reset.
<b>Log Volume</b>	The average log file volume received per day over the past seven days.
<b>Reports</b>	The number of reports generated for a number of devices.
<b>Reset</b>	Select <i>Reset</i> to reset the aforementioned statistics back to zero.

## All ADOMs

The *All ADOMs* menu item displays all the ADOMs configured on the device, and provides the option to create new ADOMs. It is only visible if ADOMs are enabled, see [System Information widget on page 45](#).



FortiAnalyzer v5.2.0 and later supports FortiGate, FortiCache, FortiCarrier, FortiClient, FortiMail, FortiSandbox, FortiWeb, Syslog, and others ADOM types.

---

Name	Version	Device	VPN Management	# of Policy Packages	Alert Device
FortiAnalyzer	5.2		Policy & Device VPNs	1	
FortiCache	5.2		Policy & Device VPNs	1	
FortiCarrier	5.2		Policy & Device VPNs	1	
FortiClient	5.2		Policy & Device VPNs	1	
FortiMail	5.2		Policy & Device VPNs	1	
FortiManager	5.2		Policy & Device VPNs	1	
FortiSandbox	5.2	FSA1KD3A14000038	Policy & Device VPNs	1	
FortiWeb	5.2		Policy & Device VPNs	1	
Syslog	5.2		Policy & Device VPNs	1	
others	5.2		Policy & Device VPNs	1	
root	5.2	fgtha-m-95	Policy & Device VPNs	2	(1)

Device Name	Model	Connectivity	Active Alerts
fgtha-m-95	FortiGate-VM		Connection Down Out of Sync

The following information and options are available:

<b>Create New</b>	Select to create a new ADOM. See <a href="#">To create a new ADOM:</a> .
<b>Search</b>	Enter a keyword to search your ADOMs.
<b>Name</b>	The names of the current ADOMs.
<b>Version</b>	The firmware release version of the ADOM.
<b>Device</b>	The devices currently in the ADOM.

Right-click on an ADOM in the list to open the right-click menu. The following options are available:

<b>Delete</b>	Select <i>Delete</i> in the right-click menu to delete the ADOM.
<b>Edit</b>	Select <i>Edit</i> in the right-click menu to edit the ADOM.
<b>Select All</b>	Select <i>Select All</i> in the right-click menu to select all ADOMs in the list.

**To create a new ADOM:**

1. Select *Create New* from the ADOM list toolbar. The *Create ADOM* dialog box opens.

2. Enter a name for the ADOM in the *Name* field.
3. Select the device type and firmware version from the drop-down lists.
4. Select the devices to be added to the ADOM from the device list on the left, then select the arrow button to transfer them into the selected devices list on the right.
5. Select *OK* to create the ADOM.

**To edit an ADOM:**

1. Right-click on the ADOM you need to edit and select *Edit* from the right-click menu, or double-click anywhere in the ADOM's row. The *Edit ADOM* dialog box opens.
2. Edit the ADOM information as required and then select *OK*.  
The device type and version cannot be edited.



The default ADOMs cannot be edited.

**To disable an ADOM:**

1. Right-click on the ADOM you need to disable and select *Edit* from the right-click menu, or double-click anywhere in the ADOM's row. The *Edit ADOM* dialog box opens.
2. Uncheck the *Status* checkbox and then select *OK*.  
You must remove all devices before disabling the ADOM.



The default ADOMs cannot be disabled.

---

**To delete an ADOM:**

1. Right-click on the ADOM you would like to delete and select *Delete* from the right-click menu.
2. Select *OK* in the confirmation dialog box to delete the ADOM.



The default ADOMs cannot be deleted.

---

## RAID management

RAID helps to divide data storage over multiple disks, providing increased data reliability. FortiAnalyzer units that contain multiple hard disks can have their RAID array configured for capacity, performance, and availability.



This menu is only available on devices that support RAID.

---



You can view the status of the RAID array from the RAID menu in *System Settings > RAID Management*. The RAID Management page displays the status of each disk in the RAID array, including the disk's RAID level. This menu also displays how much disk space is being used.

Under *Disk Management* the following information is displayed: *Disk Number*, *Member of RAID*, *Disk Status*, *Size (GB)*, and *Disk Model*. See RAID management menu page.

The *Alert Message Console* widget, located in *System Settings > Dashboard*, will provides detailed information about any RAID array failures. For more information see [Alert Messages Console widget on page 55](#).


If you need to remove a disk from the FortiAnalyzer unit, you might be able to hot swap it. Hot swapping means that you remove a failed hard disk and replace it with a new one while the FortiAnalyzer unit is in operation. Hot swapping is a quick and efficient way to replace hard disks. For more information about hot swapping, see [Hot swapping hard disks on page 68](#).

**Summary**

RAID Level: Raid-5 [\[Change\]](#)

Status: System is functioning normally.

Disk Space Usage:  1% Used  
2GB Used/ 4579GB Free/ 4581GB Total

**Disk Management**

Disk Number	Member of RAID	Disk Status	Size(GB)	Disk Model
0	Yes	✓	931	WDC WD1002FBYS-18W8B0
1	Yes	✓	931	WDC WD1003FBYX-18Y7B0
2	Yes	✓	931	WDC WD1003FBYX-18Y7B0
3	Yes	✓	931	WDC WD1003FBYX-18Y7B0
4	Yes	✓	931	Hitachi HUA721010KLA330
5	Yes	✓	931	WDC WD1002FBYS-18W8B0

### To configure the RAID level:


1. Go to *System Settings > RAID Management*, in the *RAID Level* field, select *Change*. The *RAID Settings* dialog box opens.

**RAID Settings**

RAID Level: RAID 10 ▼

Status: OK

Size(GB): 1861

 **Warning: If the RAID setting is changed, all data will be deleted!**

OK
Cancel

2. From the *RAID Level* drop-down list, select the RAID level you want to use, then select *OK*. Once selected, depending on the RAID level, it may take a significant amount of time to generate the RAID array.



If the RAID settings is changed, all data will be deleted.



## Supported RAID levels

FortiAnalyzer units with multiple hard drives can support the following RAID levels:

### Linear

- Linear RAID combines all hard disks into one large virtual disk. The total space available in this option is the capacity of all disks used. There is very little performance change when using this RAID format. If any of the drives fails, the entire set of drives is unusable until the faulty drive is replaced. All data will be lost.

### RAID 0

- A RAID 0 array is also referred to as striping. The FortiAnalyzer unit writes information evenly across all hard disks. The total space available is that of all the disks in the RAID array. There is no redundancy available. If any single drive fails, the data on that drive cannot be recovered. This RAID level is beneficial because it provides better performance, since the FortiAnalyzer unit can distribute disk writing across multiple disks.
- Minimum number of drives: 2
- Data protection: No protection



RAID 0 is not recommended for mission critical environments as it is not fault-tolerant.

---

### RAID 1

- A RAID 1 array is also referred to as mirroring. The FortiAnalyzer unit writes information to one hard disk, and writes a copy (a mirror image) of all information to all the other hard disks. The total disk space available is that of only one hard disk, as the others are solely used for mirroring. This provides redundant data storage with no single point of failure. Should any of the hard disks fail, there are backup hard disks available.
- Minimum number of drives: 2
- Data protection: Single-drive failure



One write or two reads are possible per mirrored pair. RAID 1 offers redundancy of data. A re-build is not required in the event of a drive failure. This is the simplest RAID storage design with the highest disk overhead.

---

### RAID 1 +Spare

- A RAID 1 with hot spare (or RAID 1s) array uses one of the hard disks as a hot spare (a stand-by disk for the RAID). If a hard disk fails, within a minute of the failure, the hot spare is substituted for the failed drive, integrating it into the RAID array, and rebuilding the RAID's data. When you replace the failed hard disk, the new hard disk becomes the new hot spare.

### RAID 5

- A RAID 5 array employs striping with a parity check. Similar to RAID 0, the FortiAnalyzer unit writes information evenly across all drives but additional parity blocks are written on the same stripes. The parity block is staggered for each stripe. The total disk space is the total number of disks in the array, minus one disk for parity storage. For example, with four hard disks, the total capacity available is actually the total for three hard disks. RAID 5 performance is typically better with reading than with writing, although performance is degraded when one disk has

failed or is missing. With RAID 5, one disk can fail without the loss of data. If a drive fails, it can be replaced and the FortiAnalyzer unit will restore the data on the new disk by using reference information from the parity volume.

- Minimum number of drives: 3
- Data protection: Single-drive failure

### RAID 5 +Spare

- A RAID 5 with hot spare array uses one of the hard disks as a hot spare (a stand-by disk for the RAID). If a hard disk fails, within a minute of the failure, the hot spare is substituted for the failed drive, integrating it into the RAID array, and rebuilding the RAID's data. When you replace the failed hard disk, the new hard disk becomes the new hot spare.

### RAID 6

- A RAID 6 array is the same as a RAID 5 array with an additional parity block. It uses block-level striping with two parity blocks distributed across all member disks.
- Minimum number of drives: 4
- Data protection: Up to two disk failures.

### RAID 6 +Spare

- A RAID 6 with hot spare array is the same as a RAID 5 with hot spare array with an additional parity block.

### RAID 10

- RAID 10 (or 1+0), includes nested RAID levels 1 and 0, or a stripe (RAID 0) of mirrors (RAID 1). The total disk space available is the total number of disks in the array (a minimum of 4) divided by 2, for example:
  - two RAID 1 arrays of two disks each
  - three RAID 1 arrays of two disks each
  - six RAID1 arrays of two disks each.
- One drive from a RAID 1 array can fail without the loss of data; however, should the other drive in the RAID 1 array fail, all data will be lost. In this situation, it is important to replace a failed drive as quickly as possible.
  - Minimum number of drives: 4
  - Data protection: Up to two disk failures in each sub-array.



Alternative to RAID 1 when additional performance is required.

---

### RAID 50

- RAID 50 (or 5+0) includes nested RAID levels 5 and 0, or a stripe (RAID 0) and stripe with parity (RAID 5). The total disk space available is the total number of disks minus the number of RAID 5 sub-arrays. RAID 50 provides increased performance and also ensures no data loss for the same reasons as RAID 5. One drive in each RAID 5 array can fail without the loss of data.
- Minimum number of drives: 6
- Data protection: Up to one disk failure in each sub-array.



Higher fault tolerance than RAID 5 and higher efficiency than RAID 0.



RAID 50 is only available on models with 9 or more disks. By default, two groups are used unless otherwise configured via the CLI. Use the `diagnose system raid status` CLI command to view your current RAID level, status, size, groups, and hard disk drive information.

## RAID 60

- A RAID 60 (6+0) array combines the straight, block-level striping of RAID 0 with the distributed double parity of RAID 6.
- Minimum number of drives: 8
- Data protection: Up to two disk failures in each sub-array.



High read data transaction rate, medium write data transaction rate, and slightly lower performance than RAID 50.

## RAID support per FortiAnalyzer model

Model	RAID Type	RAID Level	Hot Swappable
FAZ-100C	-	-	-
FAZ-200D	-	-	-
FAZ-300D	Software RAID	Linear, 0, 1	No
FAZ-400C	-	-	-
FAZ-1000C	Software RAID	Linear, 0, 1, 10	No
FAZ-1000D	Software RAID	Linear, 0, 1, 10	No
FAZ-3000D	Hardware RAID	0, 1, 1 +Spare, 5, 5 +Spare, 6, 6 +Spare, 10, 50, 60	Yes
FAZ-3000E	Hardware RAID		Yes
FAZ-3500E	Hardware RAID		Yes
FAZ-3900E	Hardware RAID		Yes
FAZ-4000B	Hardware RAID	0, 5, 5 +Spare, 6, 6 +Spare, 10, 50, 60	Yes
FAZ-VM	-	-	-
FAZ-VM64, FAZ-VM64-HV	-	-	-

## RAID disk status

The RAID management page displays the status of each disk in the RAID array. The possible disk states are:

- **OK:** The hard drive is functioning normally.
- **Rebuilding:** The FortiAnalyzer unit is writing data to a newly added hard drive in order to restore the hard drive to an optimal state. The FortiAnalyzer unit is not fully fault tolerant until rebuilding is complete.
- **Initializing:** The FortiAnalyzer unit is writing to all the hard drives in the device in order to make the array fault tolerant.
- **Verifying:** The FortiAnalyzer unit is ensuring that the parity data of a redundant drive is valid.
- **Degraded:** The hard drive is no longer being used by the RAID controller.
- **Inoperable:** One or more drives are missing from the FortiAnalyzer unit. The drive is no longer available to the operating system. Data on an inoperable drive cannot be accessed.

## Hot swapping hard disks

If a hard disk on a FortiAnalyzer unit fails, it must be replaced. On FortiAnalyzer devices that support hardware RAID, the hard disk can be replaced while the FortiAnalyzer unit is still running, known as hot swapping. On FortiAnalyzer units with software RAID, the device must be shutdown prior to exchanging the hard disk.

To identify which hard disk failed, read the relevant log message in the *Alert Message Console* widget (see [Alert Messages Console widget on page 55](#)).

To hot-swap a hard disk on a device that supports hardware RAID, simply remove the faulty hard disk and replace it with a new one.



Electrostatic discharge (ESD) can damage FortiAnalyzer equipment. Only perform the procedures described in this document from an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an anti-static wrist or ankle strap and attaching it to an ESD connector or to a metal part of a FortiAnalyzer chassis.

When replacing a hard disk, you need to first verify that the new disk has the same size as those supplied by Fortinet and has at least the same capacity as the old one in the FortiAnalyzer unit. Installing a smaller hard disk will affect the RAID setup and may cause data loss. Due to possible differences in sector layout between disks, the only way to guarantee that two disks have the same size is to use the same brand and model.

The size provided by the hard drive manufacturer for a given disk model is only an approximation. The exact size is determined by the number of sectors present on the disk.

The FortiAnalyzer unit will automatically add the new disk to the current RAID array. The status appears on the console. The RAID management page will display a green check mark icon for all disks and the *RAID Status* area will display the progress of the RAID re-synchronization/rebuild.



Once a RAID array is built, adding another disk with the same capacity will not affect the array size until you rebuild the array by restarting the FortiAnalyzer unit.

## Adding new disks

Some FortiAnalyzer units have space to add more hard disks to increase your storage capacity.



Fortinet recommends that you use the same disks as those supplied by Fortinet. Disks of other brands will not be supported by Fortinet. For information on purchasing extra hard disks, contact your Fortinet reseller.

### To add more hard disks:

1. Obtain the same disks as those supplied by Fortinet.
2. Back up the log data on the FortiAnalyzer unit. You can also migrate the data to another FortiAnalyzer unit if you have one. Data migration reduces system down time and risk of data loss. For information on data backup, see [Backing up the system on page 48](#)
3. If your device has hardware RAID, install the disks in the FortiAnalyzer unit while the FortiAnalyzer unit is running. If your device has software RAID, shutdown the device (see [Shutdown on page 53](#)), install the disk or disks, then restart the device.
4. Configure the RAID level. If you have backed up the log data, restore the data. For more information, see [Restoring the configuration on page 49](#).

## Network

The FortiAnalyzer unit can manage Fortinet devices connected to any of its interfaces. The DNS servers must be on the networks to which the FortiAnalyzer unit connects, and should have two different addresses.

To view the configured network interfaces, go to *System Settings > Network*. The network screen is displayed.

**Network****Management Interface****port1**IP/Netmask IPv6 Address 

Administrative Access

<input checked="" type="checkbox"/> HTTPS	<input checked="" type="checkbox"/> HTTP	<input checked="" type="checkbox"/> PING
<input checked="" type="checkbox"/> SSH	<input checked="" type="checkbox"/> TELNET	<input type="checkbox"/> SNMP
<input checked="" type="checkbox"/> Web Service	<input checked="" type="checkbox"/> Aggregator	

IPv6 Administrative Access

<input type="checkbox"/> HTTPS	<input type="checkbox"/> HTTP	<input type="checkbox"/> PING
<input type="checkbox"/> SSH	<input type="checkbox"/> TELNET	<input type="checkbox"/> SNMP
<input type="checkbox"/> Web Service	<input type="checkbox"/> Aggregator	

Default Gateway **DNS**Primary DNS Server Secondary DNS Server [All Interfaces](#)[Routing Table](#)[IPv6 Routing Table](#)[Diagnostic Tools](#)**Apply**

Configure the following settings:

**Management Interface****IP/Netmask** The IP address and netmask associated with this interface.**IPv6 Address** The IPv6 address and netmask associated with this interface.**Administrative Access** Select the allowed administrative service protocols from: *HTTPS, HTTP, PING, SSH, TELNET, SNMP, Web Service, and Aggregator.***IPv6 Administrative Access** Select the allowed IPv6 administrative service protocols from: *HTTPS, HTTP, PING, SSH, TELNET, SNMP, Web Service, and Aggregator.***Default Gateway** The default gateway associated with this interface**DNS****Primary DNS Server** Enter the primary DNS server IP address.**Secondary DNS Server** Enter the secondary DNS server IP address.

<b>All Interfaces</b>	Click to open the network interface list. See <a href="#">Network interfaces on page 71</a> .
<b>Routing Table</b>	Click to open the routing table. See <a href="#">Static routes on page 73</a> .
<b>IPv6 Routing Table</b>	Click to open the IPv6 routing table. See <a href="#">Static routes on page 73</a> .
<b>Diagnostic Tools</b>	Select to run available diagnostic tools, including <i>Ping</i> , <i>Traceroute</i> , and <i>View logs</i> . See <a href="#">Diagnostic tools on page 74</a> .

## Network interfaces

To view the Network interface list, select the *All Interfaces* button.

Name	IP/Netmask	IPv6 Address	Description	Administrative Access	IPv6 Administrative Access	Service Access	Enable
port1	10.2.150.24 / 255.255.0.0	::/0		HTTPS, HTTP, PING, SSH, TELNET, SNMP, Web Service	HTTPS, HTTP, PING, SSH, TELNET, SNMP, Web Service	FortiGate Updates, Web Filtering/Anti-spam	✓
port2	0.0.0.0 / 0.0.0.0	::/0		HTTPS, HTTP, PING, SSH, TELNET, SNMP, Web Service	HTTPS, HTTP, PING, SSH, TELNET, SNMP, Web Service	FortiGate Updates, Web Filtering/Anti-spam	✓
port3	0.0.0.0 / 0.0.0.0	::/0					✓
port4	1.1.1.1 / 255.255.255.255	::/0					✓

The following information is displayed:

<b>Name</b>	The names of the physical interfaces on your FortiAnalyzer unit. The name of a physical interface depends on the model. Unlike FortiGate, you cannot set alias names for the interfaces. For more information, on configuring the interface, see <a href="#">To edit a network interface: on page 72</a> . If HA operation is enabled, the HA interface has <i>/HA</i> appended to its name.
<b>IP / Netmask</b>	The IP address and netmask associated with this interface.
<b>IPv6 Address</b>	The IPv6 address associated with this interface.
<b>Description</b>	A description of the interface.
<b>Administrative Access</b>	The list of allowed administrative service protocols on this interface.
<b>IPv6 Administrative access</b>	The list of allowed IPv6 administrative service protocols on this interface.
<b>Enable</b>	Displays an enabled icon if the interface is enabled or a disabled icon if the interface is disabled.

The following options are available:

<b>Edit</b>	Right-click on an interface and select <i>Edit</i> in the in the pop-up menu. Alternatively, double-click the entry to open the <i>Edit Interface</i> page. See <a href="#">To edit a network interface: on page 72</a> .
-------------	---

**Delete**

Right-click on an interface and select *Delete* in the pop-up menu to remove the entry. Select *OK* in the confirmation dialog box to complete the delete action.

**To edit a network interface:**

Either right-click on an interface and select *Edit* in the in the pop-up menu, or double-click the entry to open the *Edit Interface* page. The *Edit Interface* window opens.

**Edit Interface: port1**

Enable	<input checked="" type="checkbox"/>
Alias	<input type="text"/>
IP Address/Netmask	<input type="text" value="192.168.1.100/255.255.255.0"/>
IPv6 Address	<input "::="" 0"="" type="text" value=""/>
Administrative Access	<input checked="" type="checkbox"/> HTTPS <input checked="" type="checkbox"/> HTTP <input checked="" type="checkbox"/> PING <input checked="" type="checkbox"/> SSH <input type="checkbox"/> TELNET <input type="checkbox"/> SNMP <input type="checkbox"/> Web Service <input type="checkbox"/> Aggregator
IPv6 Administrative Access	<input type="checkbox"/> HTTPS <input type="checkbox"/> HTTP <input type="checkbox"/> PING <input type="checkbox"/> SSH <input type="checkbox"/> TELNET <input type="checkbox"/> SNMP <input type="checkbox"/> Web Service <input type="checkbox"/> Aggregator
Description	<input type="text"/>

Configure the following settings, then select *OK* to apply your changes:

**Enable**

Select to enable this interface. An enabled icon appears in the interface list to indicate the interface is accepting network traffic. When not selected, a disabled icon appears in the interface list to indicate the interface is down and not accepting network traffic.

**Alias**

Enter an alias for the port to make it easily recognizable.

**IP Address/Netmask**

Enter the IP address and netmask for the interface.

**IPv6 Address**

Enter the IPv6 address for the interface.

**Administrative Access**

Select the services to allow on this interface. Any interface that is used to provide administration access to the FortiAnalyzer unit will require at least HTTPS or HTTP for GUI access, or SSH for CLI access.



**IPv6 Administrative Access** Select the services to allow on this interface. Any interface that is used to provide administration access to the FortiAnalyzer unit will require at least HTTPS or HTTP for GUI access, or SSH for CLI access.

**Description** Enter a brief description of the interface (optional).

## Static routes

From *System Settings > Network*, select *Routing Table* to manage IPv4 static routes, or select *IPv6 Routing Table* to manage IPv6 static routes.

<a href="#">Create New</a> <a href="#">Delete</a>				
<input type="checkbox"/>	ID	IP/Netmask	Gateway	Interface
<input type="checkbox"/>	1	0.0.0.0 / 0.0.0.0	192.168.1.254	port1
<input checked="" type="checkbox"/>	2	0.0.0.0 / 0.0.0.0	12.13.12.14	port3
<input type="checkbox"/>	3	0.0.0.0 / 0.0.0.0	42.42.42.42	port4
<input type="checkbox"/>	4	0.0.0.0 / 0.0.0.0	10.10.10.14	port1

The following information is displayed:

<b>ID</b>	The route number.
<b>IP/Netmask</b>	The destination IPv4 or IPv6 address and netmask for this route.
<b>Gateway</b>	The address of the next hop router to which this route directs traffic.
<b>Interface</b>	The network interface that connects to the gateway.

The following options are available:

<b>Create New</b>	Select <i>Create New</i> to add a new route. See <a href="#">To add a static route: on page 73</a> .
<b>Delete</b>	Select the check box next to the route number then select <i>Delete</i> to remove the route from the table. Delete is also available in the right-click menu.
<b>View</b>	Select from the right-click menu to open the <i>Create Route</i> window.

### To add a static route:

From the routing table, select *Create New*, double-click on a current route, or right-click and select *View*, to open the *Create Route* or *Create IPv6 Route* window.

**Create Route**

Destination IP/Mask

Gateway

Interface

port1 ▼

Configure the following settings, then select *OK* to create the new static route:

<b>Destination IP/Mask</b>	Enter the destination IP address and netmask, or IPv6 prefix, for this route.
<b>Gateway</b>	Enter the address of the next hop router to which this route directs traffic.
<b>Interface</b>	Select the network interface that connects to the gateway.

## Diagnostic tools

Diagnostic tools allows you to run available diagnostic tools, including *Ping*, *Traceroute*, and *View logs*.

**Diagnostics**

Ping

Traceroute

View logs

Following is an example Ping diagnostic output of an internal network device:

**Ping Diagnostics**

```

PING 172.16.86.101 (172.16.86.101): 56 data bytes
84 bytes from 172.16.86.101: icmp_seq=0 ttl=255 time=7.5 ms
84 bytes from 172.16.86.101: icmp_seq=1 ttl=255 time=0.1 ms
84 bytes from 172.16.86.101: icmp_seq=2 ttl=255 time=0.1 ms
84 bytes from 172.16.86.101: icmp_seq=3 ttl=255 time=0.2 ms

--- 172.16.86.101 ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 0.1/1.9/7.5 ms

```

## Admin


The *System Settings > Admin* menu enables you to configure administrator accounts, access profiles, and adjust global administrative settings for the FortiAnalyzer unit. The following sub-menu options are available:

<b>Administrator</b>	Select to configure administrative users accounts. For more information, see <a href="#">Administrator on page 76</a> .
<b>Profile</b>	Select to set up access profiles for the administrative users. For more information, see <a href="#">Profile on page 80</a> .
<b>Remote Auth Server</b>	Select to configure authentication server settings for administrative log in. For more information, see <a href="#">Remote authentication server on page 83</a> .
<b>Admin Settings</b>	Select to configure connection options for the administrator including port number, language of the GUI and idle timeout. For more information, see <a href="#">Administrator settings on page 88</a> .

## Monitoring administrator sessions

The Current Administrators view enables you to view the list of administrators logged into the FortiAnalyzer unit. From this window you can also disconnect users if necessary.

To view logged in administrators on the FortiAnalyzer unit, go to *System Settings > Dashboard*. In the *System Information* widget, under *Current Administrators*, select *Detail*. The list of current administrator sessions opens.

Current Administrators				
	Delete			
<input type="checkbox"/>	User Name	IP Address	Start Time	Time Out (mins)
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 08:43:42 2013	480
<input checked="" type="checkbox"/>	admin (current)	GUI(10.2.0.250)	Thu Oct 17 09:44:59 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 09:55:00 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 11:20:41 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 11:23:03 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 11:28:31 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 11:43:13 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 11:57:45 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 11:58:46 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 12:03:53 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 12:09:46 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 12:16:49 2013	480
<input type="checkbox"/>	admin	GUI(10.2.0.250)	Thu Oct 17 12:42:09 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 12:47:40 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 13:08:45 2013	480
<input type="checkbox"/>	admin	jsconsole(10.2.0.250)	Thu Oct 17 13:45:58 2013	480

Close

The following information is displayed:

<b>User Name</b>	The name of the administrator account. Your session is indicated by ( <i>current</i> ).
------------------	---

<b>IP Address</b>	The login type (GUI, jsconsole, SSH, telnet) and IP address where the administrator is logging in from.
<b>Start Time</b>	The date and time the administrator logged in.
<b>Time Out (mins)</b>	The maximum duration of the session in minutes (1 to 480 minutes).

The following option is available in the toolbar:

<b>Delete</b>	Select the check box next to the user and select <i>Delete</i> to drop their connection to the FortiAnalyzer unit. Select <i>OK</i> in the confirmation dialog box to proceed with the delete action.
---------------	---

#### To disconnect an administrator:

1. Go to *System Settings > Dashboard*.
2. In the *System Information* widget, in the *Current Administrators* field, select *Detail*. The list of current administrator sessions appears; see [Monitoring administrator sessions on page 75](#).
3. Select the check box for each administrator session that you want to disconnect, and select *Delete*.
4. Select *OK* to confirm deletion of the session.

The disconnected administrator will see the FortiAnalyzer login screen when disconnected. They will not have any additional warning. If possible, it is advisable to inform the administrator before disconnecting them, in case they are in the middle of important configurations for the FortiAnalyzer or another device.

## Administrator

Go to *System Settings > Admin > Administrator* to view the list of administrators and configure administrator accounts. Only the default `admin` administrator account can see the complete administrators list. If you do not have certain viewing privileges, you will not see the administrator list.

The following information is displayed:

<b>User Name</b>	The name this administrator uses to log in. Select the administrator name to edit the administrator settings.
<b>Type</b>	The type of administrator account, one of: <i>LOCAL</i> , <i>RADIUS</i> , <i>LDAP</i> , <i>TACACS+</i> , or <i>PKI</i> .
<b>Profile</b>	The administrator profile for this user that determines the privileges of this administrator. The profile can be one of: <i>Restricted_User</i> , <i>Standard_User</i> , <i>Super_User</i> , or a custom defined profile. For information on administrator profiles, see <a href="#">Profile on page 80</a> .
<b>ADOM</b>	The ADOMs to which the user has access. ADOM access can be to all ADOMs or specific ADOMs which are assigned to the profile.

<b>Status</b>	Indicates whether the administrator is currently logged into the FortiAnalyzer unit not. A green circle with an up arrow indicates that the administrator is logged in, a red circle with a down arrow indicates that they are not.
<b>Comments</b>	Descriptive text about the administrator account.

The following options are available:

<b>Create New</b>	Select to create a new administrator. For more information, see <a href="#">To create a new administrator account: on page 77</a> .
<b>Delete</b>	Select the check box next to the administrator you want to remove from the list and select <i>Delete</i> . Delete is also available in the right-click menu.
<b>Edit</b>	Select the administrator in the table, right-click, and select <i>Edit</i> in the right-click menu to edit the entry. Alternatively, you can double-click the entry to open the <i>Edit Administrator</i> page.

**To create a new administrator account:**

1. Go to *System Settings > Admin > Administrator* and select *Create New*. The *New Administrator* dialog box appears.

**New Administrator**

User Name	<input type="text" value="Company"/>		
Description	<input type="text" value="Write a comment"/> 0/127		
Type	<div>LOCAL ▾</div>		
New Password	<input type="password" value="••••••••"/>		
Confirm Password	<input type="password" value="••••••••"/>		
Admin Profile	<div>Company ▾</div>		
Administrative Domain	<div>52_ADOM ▾</div>		
Web Filter Profile	Customer Profile	+	
Application Sensor	Customer Sensor	+	
IPS Sensor	Customer Profile	+	
<b>▼ Trusted Host</b>			
Trusted Host 1	<input type="text" value="0.0.0.0/0.0.0.0"/>		
Trusted Host 2	<input type="text" value="255.255.255.255/255.255.255.255"/>		
Trusted Host 3	<input type="text" value="255.255.255.255/255.255.255.255"/> +		
Trusted IPv6 Host 1	<input "::="" 0"="" type="text" value=""/>		
Trusted IPv6 Host 2	<input type="text" value="ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff/128"/>		
Trusted IPv6 Host 3	<input type="text" value="ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff/128"/> +		
User Information			
Contact Email	<input type="text" value="admin@company.com"/>		
Contact Phone	<input type="text"/>		

2. Configure the following settings:

<b>User Name</b>	Enter the name that this administrator uses to log in.
<b>Description</b>	Optionally, enter a description of this administrator's role, location or reason for their account. This field adds an easy reference for the administrator account.
<b>Type</b>	Select the type of authentication the administrator will use when logging into the FortiAnalyzer unit. Select one of: <i>LOCAL</i> , <i>RADIUS</i> , <i>LDAP</i> , <i>TACACS+</i> , or <i>PKI</i> . If you select <i>LOCAL</i> , you will need to add a password.
<b>Subject</b>	If <i>Type</i> is set to <i>PKI</i> , enter a description.
<b>CA</b>	If <i>Type</i> is set to <i>PKI</i> , select a certificate in the drop-down list.
<b>Require two-factor authentication</b>	If <i>Type</i> is set to <i>PKI</i> , you can select the checkbox to enforce two-factor authentication. Enter a password and confirm.
<b>New Password</b>	Enter the password.

<b>Confirm Password</b>	Enter the password again to confirm it.
<b>Server</b>	Select the <i>RADIUS</i> , <i>LDAP</i> , or <i>TACACS+</i> server, as appropriate. This option is only available if <i>Type</i> is not <i>LOCAL</i> or <i>PKI</i> .
<b>wildcard</b>	Select this option to set the password as a wildcard. This option is only available if <i>Type</i> is not <i>LOCAL</i> or <i>PKI</i> .
<b>Admin Profile</b>	Select a profile from the list. The profile selected determines the administrator's access to the FortiAnalyzer unit's features. <i>Restricted_User</i> and <i>Standard_User</i> admin profiles do not have access to the <i>System Settings</i> tab. An administrator with either of these admin profiles will see a change password icon in the navigation pane. To create a new profile see <a href="#">Configuring administrator profiles on page 82</a> .
<b>Admin Domain</b>	Choose the ADOMs this administrator will be able to access, or select <i>All ADOMs</i> . Select <i>Specify</i> and then select the add icon to add Administrative Domains. Select the remove icon to remove an Administrative Domain. This field is available only if ADOMs are enabled (see <a href="#">Administrative Domains on page 26</a> ). The <i>Super_User</i> profile defaults to <i>All ADOMs</i> access.
<b>Trusted Host</b>	Optionally, enter the trusted host IPv4 or IPv6 address and network mask from which the administrator can log in to the FortiAnalyzer unit. You can specify up to ten trusted hosts in the GUI or in the CLI. Setting trusted hosts for all of your administrators can enhance the security of your system. For more information, see <a href="#">Using trusted hosts on page 79</a> .

3. Select *OK* to create the new administrator account.

#### To edit an administrator account:

1. From the administrator list, either double-click on an administrator, or right-click and select *Edit*. The *Edit Administrator* window opens.
2. Edit the settings as required.
3. Optionally, select *Change Password* to change the password associated with the account.
4. Select *OK* to save your changes.

#### To delete an existing administrator account:

1. From the administrator list, select the check box of the administrator account or accounts that you need to delete, then select *Delete* in the toolbar.
2. Select *OK* in the confirmation dialog box to delete the administrator account.



The default *admin* administrator account cannot be deleted.

## Using trusted hosts

Setting trusted hosts for all of your administrators increases the security of your network by further restricting administrative access. In addition to knowing the password, an administrator must connect only through the

subnet or subnets you specify. You can even restrict an administrator to a single IP address if you define only one trusted host IP address with a netmask of 255.255.255.255.

When you set trusted hosts for all administrators, the FortiAnalyzer unit does not respond to administrative access attempts from any other hosts. This provides the highest security. If you leave even one administrator unrestricted, the unit accepts administrative access attempts on any interface that has administrative access enabled, potentially exposing the unit to attempts to gain unauthorized access.

The trusted hosts you define apply both to the GUI and to the CLI when accessed through SSH. CLI access through the console connector is not affected.



If you set trusted hosts and want to use the Console Access feature of the GUI, you must also set 127.0.0.1/255.255.255.255 as a trusted host. By default, Trusted Host 3 is set to this address.

## Profile

The profile list allows you to create and edit administrator profiles. Administrator profiles are used to limit administrator access privileges to devices or system features. The administrator profiles restrict access to both the GUI and CLI.

To view the list of administrator profiles, go to the *System Settings > Admin > Profile* page.

Create New		Delete	
<input type="checkbox"/>	Profile	Type	Description
<input type="checkbox"/>	Restricted_User	System Admin	Restricted user profiles have no System Privileges enabled, and have read-only access for all Device Privileges.
<input type="checkbox"/>	Standard_User	System Admin	Standard user profiles have no System Privileges enabled, but have read/write access for all Device Privileges.
<input type="checkbox"/>	Super_User	System Admin	Super user profiles have all system and device privileges enabled.
<input type="checkbox"/>	franky	System Admin	
<input checked="" type="checkbox"/>	Special	System Admin	

The following information is displayed:

<b>Profile</b>	The administrator profile name. Select the profile name to view or modify existing settings. For more information about profile settings, see <a href="#">Configuring administrator profiles on page 82</a> .
<b>Description</b>	Provides a brief description of the system and device access privileges allowed for the selected profile.

The following options are available:

<b>Create New</b>	Select to create a custom administrator profile. See <a href="#">To create a new profile: on page 82</a> .
-------------------	--



<b>Delete</b>	Select the check box next to the profile you want to delete and select <i>Delete</i> . Predefined profiles cannot be deleted. You can only delete custom profiles when they are not applied to any administrators. Delete is also available in the right-click menu.
<b>Edit</b>	Right-click on a profile and select <i>Edit</i> in the right-click menu, or double-click on a profile to open the <i>Edit Profile</i> page. See <a href="#">To edit a profile: on page 82</a> .

## Predefined profiles

There are three predefined profiles:

<b>Restricted_User</b>	Restricted user profiles have no System Privileges enabled, and have read-only access for all Device Privileges.
<b>Standard_User</b>	Standard user profiles have no System Privileges enabled, but have read/write access for all Device Privileges.
<b>Super_User</b>	Super user profiles have all system and device privileges enabled.



*Restricted\_User* and *Standard\_User* admin profiles do not have access to the *System Settings* tab. An administrator with either of these admin profiles will see a change password icon in the navigation pane.

When *Read-Write* is selected, the user can view and make changes to the FortiAnalyzer system. When *Read-Only* is selected, the user can only view information. When *None* is selected, the user can neither view or make changes to the FortiAnalyzer system.

Feature	Predefined Administrator Profiles		
	Super User	Standard User	Restricted User
System Settings / <code>system-setting</code>	Read-Write	None	None
Administrator Domain / <code>adom-switch</code>	Read-Write	Read-Write	None
Device Manager / <code>device-manager</code>	Read-Write	Read-Write	Read-Only
Add/Delete Devices/Groups / <code>device-op</code>	Read-Write	Read-Write	None
FortiView / <code>realtime-monitor</code>	Read-Write	Read-Write	Read-Only
Log View / <code>log-viewer</code>	Read-Write	Read-Write	Read-Only
Reports / <code>report-viewer</code>	Read-Write	Read-Write	Read-Only

Feature	Predefined Administrator Profiles		
	Super User	Standard User	Restricted User
Event Management / <code>event-man-agement</code>	Read-Write	Read-Write	Read-Only
CLI Only Settings			
<code>profileid</code>	Super_User	Standard_User	Restricted_User
<code>scope</code>	global	global	global

You cannot delete these profiles, but you can edit them. You can also create new profiles as required.



This guide is intended for default users with full privileges. If you create a profile with limited privileges it will limit the ability of any administrator using that profile to follow the procedures in this guide.

## Configuring administrator profiles

You can create custom profiles, and edit existing profiles, including the predefined profiles, as required. Only administrators with full system privileges can edit the administrator profiles.

### To create a new profile:

1. Go to *System Settings > Admin > Profile* and select *Create New*. The *Create Profile* dialog box opens.
2. Configure the following settings:

<b>Profile Name</b>	Enter a name for this profile.
<b>Description</b>	Enter a description for this profile. While not a requirement, a description can help to know what the profiles is for or the levels it is set to.
<b>Type</b>	This field is cannot be changed. The default type is <i>System Admin</i> .
<b>Other Settings</b>	Select <i>None</i> , <i>Read Only</i> , or <i>Read-Write</i> access for the categories as required.

3. Select *OK* to save the new profile.

### To edit a profile:

1. From the profile list, right-click on a profile and select *Edit*, or double-click on a profile. The *Edit Profile* dialog box opens.
2. Edit the following settings as required:

<b>Profile Name</b>	Enter a name for this profile.
---------------------	--------------------------------

<b>Description</b>	Enter a description for this profile. While not a requirement, a description can help to know what the profiles is for or the levels it is set to.
<b>Type</b>	This field is cannot be changed. The default type is <i>System Admin</i> .
<b>Other Settings</b>	Select <i>None</i> , <i>Read Only</i> , or <i>Read-Write</i> access for the categories as required.

3. Select *OK* to save your changes.



The *Name* field cannot be changed when editing a profile in the GUI.

#### To delete a profile:

1. From the profile list, select the check box of the custom profile or profiles that you need to delete, then select *Delete* in the toolbar, or right-click on a profile and select *Delete*. You can only delete custom profiles that are not applied to any administrators.
2. Select *OK* in the confirmation dialog box to delete the profile.

## Remote authentication server

The FortiAnalyzer system supports remote authentication of administrators using Remote Authentication Dial-in User (RADIUS), Lightweight Directory Access Protocol (LDAP), and Terminal Access Controller Access-Control System (TACACS+) servers. To use this feature, you must configure the appropriate server entries in the FortiAnalyzer unit for each authentication server in your network. LDAP servers can be linked to all ADOMs or to specific ADOMs.

Go to *System Settings > Admin > Remote Auth Server* to view the server list. The following information is displayed:

<b>Name</b>	The server name. Select the server name to edit the settings.
<b>Type</b>	The type of server, either LDAP, RADIUS, or TACACS+.
<b>ADOM</b>	The ADOM(s) that are associated with this server. This field is only applicable to LDAP servers.
<b>Details</b>	The IP address or DNS resolvable domain name of the server.

The following options are available:

<b>Create New</b>	Add a new LDAP, RADIUS, or TACACS+ server entry. See <a href="#">To add a LDAP server: on page 84</a> , <a href="#">To add a RADIUS server configuration: on page 86</a> , and <a href="#">To add a TACACS+ server: on page 87</a> .
-------------------	--

<b>Delete</b>	Select the check box next to a server or servers then select <i>Delete</i> . You cannot delete a server entry if there are administrator accounts using it. Delete is also available in the right-click menu.
<b>Edit</b>	Right-click on a server and select <i>Edit</i> , or double-click on a server, to open the <i>Edit Server</i> page.

#### To edit a remote authentication server:

1. From the remote authentication server list, right-click on a server and select *Edit*, or double-click on a server, to open the *Edit Server* page. The appropriate edit window opens, depending on the server type selected.
2. Change the settings as required and select *OK* to apply your changes.



The *Name* field cannot be changed when editing a server configuration in the GUI.

#### To delete a server:

1. From the remote authentication server list, select the check box beside the server or servers that you need to delete and then select *Delete* from the toolbar, or right-click on a server and select *Delete*.
2. Select *OK* in the confirmation dialog box to delete the server entry.



You cannot delete a server entry if there are administrator accounts using it.

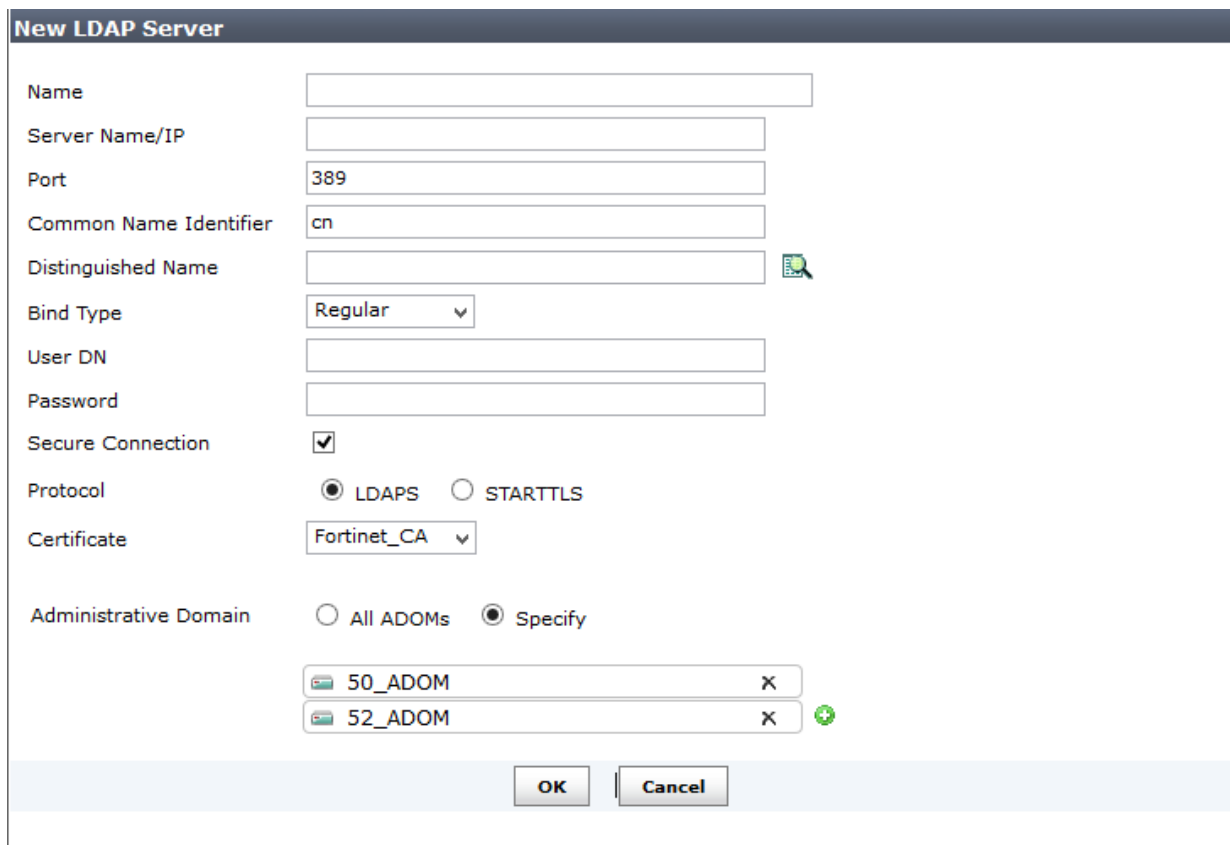
## LDAP server

LDAP is an Internet protocol used to maintain authentication data that may include departments, people, groups of people, passwords, email addresses, and printers. LDAP consists of a data-representation scheme, a set of defined operations, and a request/response network.

If you have configured LDAP support and require a user to authenticate using an LDAP server, the FortiAnalyzer unit contacts the LDAP server for authentication. To authenticate with the FortiAnalyzer unit, the user enters a user name and password. The FortiAnalyzer unit sends this user name and password to the LDAP server. If the LDAP server can authenticate the user, the FortiAnalyzer unit successfully authenticates the user. If the LDAP server cannot authenticate the user, the FortiAnalyzer unit refuses the connection.

#### To add a LDAP server:

1. Go to *System Settings > Admin > Remote Auth Server*.
2. Select the *Create New* toolbar and select LDAP in the drop-down list. The *New LDAP Server* dialog box opens.



The 'New LDAP Server' window contains the following fields and controls:

- Name:** Text input field.
- Server Name/IP:** Text input field.
- Port:** Text input field with '389' entered.
- Common Name Identifier:** Text input field with 'cn' entered.
- Distinguished Name:** Text input field with a query icon (magnifying glass over a document) to its right.
- Bind Type:** Drop-down menu with 'Regular' selected.
- User DN:** Text input field.
- Password:** Text input field.
- Secure Connection:** Checked checkbox.
- Protocol:** Radio buttons for 'LDAPS' (selected) and 'STARTTLS'.
- Certificate:** Drop-down menu with 'Fortinet\_CA' selected.
- Administrative Domain:** Radio buttons for 'All ADOMs' and 'Specify' (selected).
- Administrative Domain List:** A list box containing '50\_ADOM' and '52\_ADOM', each with a delete 'X' icon to its right. A green plus icon is at the bottom right of the list.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

3. Configure the following information:

<b>Name</b>	Enter a name to identify the LDAP server.
<b>Server Name/IP</b>	Enter the IP address or fully qualified domain name of the LDAP server.
<b>Port</b>	Enter the port for LDAP traffic. The default port is 389.
<b>Common Name Identifier</b>	The common name identifier for the LDAP server. Most LDAP servers use <i>cn</i> . However, some servers use other common name identifiers such as <i>uid</i> .
<b>Distinguished Name</b>	The distinguished name used to look up entries on the LDAP servers use. The distinguished name reflects the hierarchy of LDAP database object classes above the common name identifier. Select the query icon to query the distinguished name.
<b>Bind Type</b>	Select the type of binding for LDAP authentication from the drop-down list. One of: <i>Simple</i> , <i>Anonymous</i> , or <i>Regular</i> .
<b>User DN</b>	Enter the user distinguished name. This option is available when the <i>Bind Type</i> is set to <i>Regular</i> .
<b>Password</b>	Enter the user password. This option is available when the <i>Bind Type</i> is set to <i>Regular</i> .

<b>Secure Connection</b>	Select to use a secure LDAP server connection for authentication.
<b>Protocol</b>	Select either LDAPS or STARTTLS in the protocol field.
<b>Certificate</b>	Select the certificate in the drop-down list.
<b>Administrative Domain</b>	Select either <i>All ADOMs</i> or <i>Specify</i> to select which ADOMs to link to the LDAP server. Select <i>Specify</i> and then select the add icon to add Administrative Domains. Select the remove icon to remove an Administrative Domain.

4. Select **OK** to save the new LDAP server entry.

## RADIUS server

RADIUS is a user authentication and network-usage accounting system. When users connect to a server they enter a user name and password. This information is passed to a RADIUS server, which authenticates the user and authorizes access to the network.

You can create or edit RADIUS server entries in the RADIUS server list to support authentication of administrators. When an administrator account's type is set to RADIUS, the FortiAnalyzer unit uses the RADIUS server to verify the administrator password at logon. The password is not stored on the FortiAnalyzer unit.

### To add a RADIUS server configuration:

1. Go to *System Settings > Admin > Remote Auth Server*.
2. Select the *Create New* in the toolbar and select RADIUS in the drop-down list. The *New RADIUS Server* dialog box appears.

**New RADIUS Server**

Name	<input type="text"/>
Server Name/IP	<input type="text"/>
Server Secret	<input type="text"/>
Secondary Server Name/IP	<input type="text"/>
Secondary Server Secret	<input type="text"/>
Port	<input type="text" value="1812"/>
Auth-Type	<input type="text" value="ANY"/>

3. Configure the following settings:

<b>Name</b>	Enter a name to identify the RADIUS server.
<b>Server Name/IP</b>	Enter the IP address or fully qualified domain name of the RADIUS server.

<b>Server Secret</b>	Enter the RADIUS server secret.
<b>Secondary Server Name/IP</b>	Enter the IP address or fully qualified domain name of the secondary RADIUS server.
<b>Secondary Server Secret</b>	Enter the secondary RADIUS server secret.
<b>Port</b>	Enter the port for RADIUS traffic. The default port is 1812. Some RADIUS servers use port 1645.
<b>Auth-Type</b>	Enter the authentication type the RADIUS server requires. Select from <i>ANY</i> , <i>PAP</i> , <i>CHAP</i> , or <i>MSv2 (MSCHAPv2)</i> . The default setting of <i>ANY</i> has the FortiAnalyzer unit try all the authentication types.

4. Select **OK** to save the new RADIUS server configuration.

## TACACS+ server

TACACS+ is a remote authentication protocol that provides access control for routers, network access servers, and other networked computing devices via one or more centralized servers. TACACS allows a client to accept a user name and password and send a query to a TACACS authentication server. The server host determines whether to accept or deny the request and sends a response back that allows or denies network access to the user. The default TCP port for a TACACS server is 49.

For more information about TACACS+ servers, see the FortiGate documentation.

### To add a TACACS+ server:

1. Go to *System Settings > Admin > Remote Auth Server*.
2. Select **Create New** in the toolbar and select TACACS+ in the drop-down list.

**New TACACS+ Server**

Name	<input type="text" value="Company_C"/>
Server Name/IP	<input type="text" value="191.168.1.141"/>
Port	<input type="text" value="49"/>
Server Key	<input type="password" value="....."/>
Auth-Type	<input type="text" value="auto"/> ▼

3. Configure the following information:

<b>Name</b>	Enter a name to identify the TACACS+ server.
<b>Server Name/IP</b>	Enter the IP address or fully qualified domain name of the TACACS+ server.
<b>Port</b>	Enter the port for TACACS+ traffic. The default port is 49.

<b>Server Key</b>	Enter the key to access the TACACS+ server. The server key can be a maximum of 16 characters in length.
<b>Auth-Type</b>	Enter the authentication type the TACACS+ server requires. Select one of: <i>auto</i> , <i>ASCII</i> , <i>PAP</i> , <i>CHAP</i> , or <i>MSCHAP</i> . The default value is <i>auto</i> .

4. Select **OK** to save the new TACACS+ server entry.

## Administrator settings

The *Admin Settings* page allows you to configure global settings for administrator access to the FortiAnalyzer unit, including:

- Ports for HTTPS and HTTP administrative access
- HTTPS & Web Service server certificate
- Idle Timeout settings
- Language of the GUI
- Password Policy

Only the `admin` administrator can configure these system options, which apply to all administrators logging onto the FortiAnalyzer unit.

### To configure administrative settings:

1. Go to *System Settings > Admin > Admin Settings*. The *Settings* dialog box opens.

Settings

Administration Settings

HTTP Port

80

☒ Redirect to HTTPS

HTTPS Port

443

HTTPS & Web Service Server Certificate

server.crt

Idle Timeout

480

(1-480 Minutes)

Language

Auto Detect

☒ Password Policy

Minimum Length

8

(8-32 characters)

Must Contain

☐ Upper Case Letters

☐ Lower Case Letters

☐ Numbers (0-9)

☐ Special Characters or Non-alphanumeric Letters

Admin Password Expires after

0

(days)

Display Options on GUI

☒ Show VPN Console

☒ Show Script

☒ Show Device List Import/Export

☒ Show Add Multiple Button

Apply



2. Configure the following settings:

Administration Settings	
<b>HTTP Port</b>	Enter the TCP port to be used for administrative HTTP access.
<b>Redirect to HTTPS</b>	Select this option to automatically redirect to HTTPS from administrative HTTP access.
<b>HTTPS Port</b>	Enter the TCP port to be used for administrative HTTPS access.
<b>HTTPS &amp; Web Service Server Certificate</b>	Select a certificate from the drop-down list.
<b>Idle Timeout</b>	Enter the number of minutes that an administrative connection can be idle before the administrator must log in again. The maximum is 480 minutes (8 hours). To ensure security, the idle timeout should be a short period of time to avoid the administrator inadvertently leaving the management computer logged in to the FortiAnalyzer unit, creating the possibility of someone walking up and modifying the network options.
<b>Language</b>	Select a language from the drop-down list. Select either <i>English</i> , <i>Simplified Chinese</i> , <i>Traditional Chinese</i> , <i>Japanese</i> , <i>Korean</i> , or <i>Auto Detect</i> . The default value is <i>Auto Detect</i> .
Password Policy	
<b>Enable</b>	Select to enable administrator passwords.
<b>Minimum Length</b>	Select the minimum length for a password. The default is eight characters.
<b>Must Contain</b>	Select the types of characters that a password must contain.
<b>Admin Password Expires after</b>	Select the number of days that a password is valid for, after which time it must be changed.

3. Select *Apply* to save your settings. The settings are applied to all administrator accounts.

## Configure two-factor authentication for administrator login

To configure two-factor authentication for administrator login you will need the following:

- FortiAnalyzer
- FortiAuthenticator
- FortiToken

### FortiAuthenticator side configuration

The following instructions describes the steps required on your FortiAuthenticator device.



Before proceeding, ensure that you have configured your FortiAuthenticator and that you have created a NAS entry for your FortiAnalyzer and created/imported FortiTokens. For more information, see the *FortiAuthenticator Interoperability Guide* and *FortiAuthenticator Administration Guide* available in the [Fortinet Document Library](#).

### To create a new local user:

1. Go to *Authentication > User Management > Local Users*.
2. Select *Create New* in the toolbar. The *Create New User* page opens.

3. Configure the following settings:

<b>Username</b>	Enter a user name for the local user.
<b>Password creation</b>	Select Specify a password from the drop-down list.
<b>Password</b>	Enter a password. The password must be a minimum of 8 characters.
<b>Password confirmation</b>	Re-enter the password.
<b>Enable account expiration</b>	Optionally, select to enable account expiration. For more information see the <i>FortiAuthenticator Administration Guide</i> .

4. Select *OK* to continue. The *Change user* page opens.

**Change user**

✓ Successfully added user "fortimanager". You may edit it again below.

Username: **fortimanager**

☐ Disabled

☒ Password-based authentication [\[Change Password\]](#)

☒ Token-based authentication

Deliver token code by: ☒ FortiToken ☐ E-mail ☐ SMS

FortiToken 200:  FortiToken Mobile:

[Configure a temporary e-mail/SMS token.](#)

☐ Enable account expiration

**User Role**

Role: ☐ Administrator ☒ User

☒ Allow RADIUS authentication

☐ Allow LDAP browsing

▶ User Information

▶ Alternative e-mail addresses

▶ Password Recovery Options

▶ Groups

▶ E-mail Routing

▶ Radius Attributes

▶ Certificate Bindings

5. Configure the following settings:

<b>Password-based authentication</b>	Leave this option selected. Select <i>[Change Password]</i> to change the password for this local user.
<b>Token-based authentication</b>	Select to enable token-based authentication.
<b>Deliver token code by</b>	Select to deliver token by FortiToken.
<b>FortiToken 200</b>	Select the FortiToken from the drop-down list.
<b>Enable account expiration</b>	Optionally, select to enable account expiration. For more information see the <i>FortiAuthenticator Administration Guide</i> .
<b>User Role</b>	
<b>Role</b>	Select either Administrator or User.
<b>Allow RADIUS authentication</b>	Select to allow RADIUS authentication.
<b>Allow LDAP browsing</b>	Optionally, select to allow LDAP browsing. For more information see the <i>FortiAuthenticator Administration Guide</i> .

6. Select **OK** to save the setting.

**To create a new RADIUS client:**

1. Go to *Authentication > RADIUS Service > Clients*.
2. Select *Create New* in the toolbar. The *Create New RADIUS Client* page opens.

**Add RADIUS client**

Name:

Client name/IP:

Secret:

Description:

Authentication method:

- ☒ Enforce two-factor authentication
- ☐ Apply two-factor authentication if available (authenticate any user)
- ☐ Password-only authentication (exclude users without a password)
- ☐ FortiToken-only authentication (exclude users without a FortiToken)

Username input format:

- ☒ username@realm
- ☐ realmusername
- ☐ realm/username

Realms:

Default	Realm	Allow local users to override remote users	Use Windows AD domain authentication	Groups	Delete
<input checked="" type="radio"/>	planetexpress   Local users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Filter: [Edit] <input type="checkbox"/> Filter: local users: [Edit]	<input type="button" value="X"/>

[+ Add a realm](#)

☒ Allow MAC-based authentication

☒ Require Call-Check attribute for MAC-based authentication

☐ Check machine authentication

EAP types:

- ☐ EAP-GTC
- ☐ EAP-TLS
- ☐ PEAP
- ☐ EAP-TTLS

OK Cancel

3. Configure the following settings:

<b>Name</b>	Enter a name for the RADIUS client entry.
<b>Client name/IP</b>	Enter the IP address or Fully Qualified Domain Name (FQDN) of the FortiAnalyzer.
<b>Secret</b>	Enter the server secret. This value must match the FortiAnalyzer RADIUS server setting at <i>System Settings &gt; Admin &gt; Remote Auth Server</i> .
<b>Description</b>	Enter an option description for the RADIUS client entry.
<b>Authentication method</b>	Select <i>Enforce two-factor authentication</i> from the list of options.
<b>Username input format</b>	Select the username input format.
<b>Realms</b>	Create and define the Realm. For more information see the <i>FortiAuthenticator Administration Guide</i> .

<b>Allow MAC-based authentication</b>	Optional configuration. For more information see the <i>FortiAuthenticator Administration Guide</i> .
<b>EAP types</b>	Optional configuration. For more information see the <i>FortiAuthenticator Administration Guide</i> .

4. Select **OK** to save the setting.

## FortiAnalyzer side configuration

The following instructions describes the steps required on your FortiAnalyzer device.

### To configure the RADIUS server:

1. Go to *System Settings > Admin > Remote Auth Server*.
2. Select **Create New** in the toolbar and select **RADIUS** from the drop-down list. The *New RADIUS Server* page opens.

#### New RADIUS Server

Name	<input type="text" value="FortiAuthenticator"/>
Server Name/IP	<input type="text" value="192.168.1.33"/>
Server Secret	<input type="password" value="....."/>
Secondary Server Name/IP	<input type="text"/>
Secondary Server Secret	<input type="password"/>
Port	<input type="text" value="1812"/>
Auth-Type	<input type="button" value="ANY"/> ▾



3. Configure the following settings:

<b>Name</b>	Enter a name to identify the FortiAuthenticator.
<b>Server Name/IP</b>	Enter the IP address or fully qualified domain name of your FortiAuthenticator.
<b>Server Secret</b>	Enter the FortiAuthenticator secret.
<b>Secondary Server Name/IP</b>	Enter the IP address or fully qualified domain name of the secondary FortiAuthenticator, if applicable.
<b>Secondary Server Secret</b>	Enter the secondary FortiAuthenticator secret, if applicable.
<b>Port</b>	Enter the port for FortiAuthenticator traffic. The default port is 1812.

**Auth-Type**

Enter the authentication type the FortiAuthenticator requires. The default setting of *ANY* has the FortiAnalyzer unit try all the authentication types. Select one of: *ANY*, *PAP*, *CHAP*, or *MSv2*.

4. Select *OK* to save the setting.

**To create the admin users:**

1. Go to *System Settings > Admin > Administrator*.
2. Select *Create New* in the toolbar. The *New Administrator* page opens.

New Administrator

User Name

Description

Write a comment 0/127

Type

RADIUS

RADIUS Server

FortiAuthenticator

☒ wildcard

Admin Profile

Standard\_User

Administrative Domain

☐ All ADOMs
 ☒ Specify

Click to add...

Policy Package Access

☐ All Package
 ☒ Specify

Click to add...

Trusted Host

Trusted Host 1

0.0.0.0/0.0.0.0

Trusted Host 2

255.255.255.255/255.255.255.255

Trusted Host 3

255.255.255.255/255.255.255.255

Trusted IPv6 Host 1

::/0

Trusted IPv6 Host 2

ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff/128

Trusted IPv6 Host 3

ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff/128

User Information

Contact Email

Contact Phone

OK

Cancel

3. Configure the following settings:

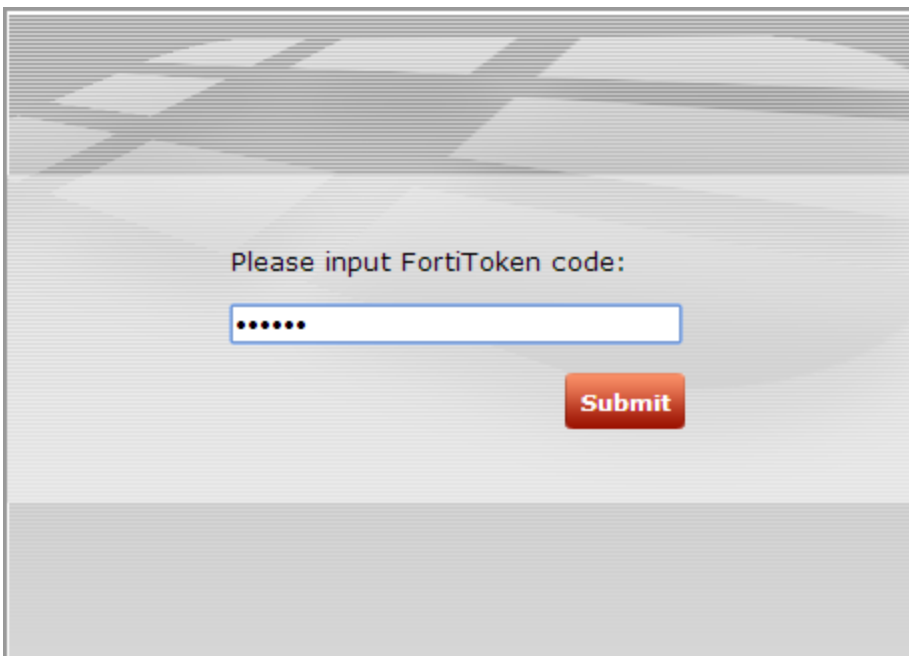
<b>User Name</b>	Enter the name that this administrator uses to log in.
<b>Description</b>	Optionally, enter a description of this administrator's role, location or reason for their account. This field adds an easy reference for the administrator account.
<b>Type</b>	Select RADIUS from the drop-down list.
<b>RADIUS Server</b>	Select the RADIUS server from the drop-down menu.
<b>Wildcard</b>	Select to enable wildcard. Wildcard authentication will allow authentication from any local user account on the FortiAuthenticator. To restrict authentication, RADIUS service clients can be configured to only authenticate specific user groups.
<b>New Password</b>	Enter the password. This field is available if <i>Type</i> is <i>RADIUS</i> and <i>Wildcard</i> is not selected.
<b>Confirm Password</b>	Enter the password again to confirm it. This field is available if <i>Type</i> is <i>RADIUS</i> and <i>Wildcard</i> is not selected.
<b>Admin Profile</b>	Select a profile from the drop-down menu. The profile selected determines the administrator's access to the FortiAnalyzer unit's features. To create a new profile see <a href="#">Configuring administrator profiles on page 82</a> .
<b>Administrative Domain</b>	Choose the ADOMs this administrator will be able to access, or select <i>All ADOMs</i> . Select <i>Specify</i> and then select the add icon to add Administrative Domains. Select the remove icon to remove an Administrative Domain. This field is available only if ADOMs are enabled (see <a href="#">Administrative Domains on page 26</a> ). The <i>Super_User</i> profile defaults to <i>All ADOMs</i> access.
<b>Trusted Host</b>	Optionally, enter the trusted host IPv4 or IPv6 address and netmask from which the administrator can log in to the FortiAnalyzer unit. Select the add icon to add trusted hosts. You can specify up to ten trusted hosts. Select the delete icon to remove trusted hosts. Setting trusted hosts for all of your administrators can enhance the security of your system. For more information, see <a href="#">Using trusted hosts on page 79</a> .

4. Select *OK* to save the setting.

**To test the configuration:**

1. Attempt to log into the FortiAnalyzer GUI with your new credentials.

2. Enter your user name and password and select *Login*. The FortiToken page is displayed.



The image shows a web interface for FortiToken login. It has a light gray background with a subtle geometric pattern. In the center, the text "Please input FortiToken code:" is displayed. Below this text is a white input field with a blue border, containing six black dots. To the right of the input field is a red rectangular button with the word "Submit" in white text.

3. Enter your FortiToken pin code and select *Submit* to finish logging in to FortiAnalyzer.






## Certificates

The FortiAnalyzer unit generates a certificate request based on the information you enter to identify the FortiAnalyzer unit. After you generate a certificate request, you can download the request to a computer that has management access to the FortiAnalyzer unit and then forward the request to a CA.

The certificate window also enables you to export certificates for authentication, importing and viewing.

### Local certificates

The FortiAnalyzer has one default local certificate, *Fortinet\_Local*. From this menu you can create, delete, import, view, and download local certificates.

				
<input type="checkbox"/>	Certificate Name	Subject	Status	
<input type="checkbox"/>	Fortinet_Local	C = US, ST = California, L = Sunnyvale, O = Fortinet, OU = FortiAnalyzer, CN = FL-1KC3R10600116, emailAddress = support@fortinet.com	OK	
<input checked="" type="checkbox"/>	Test		PENDING	

The following information is displayed:

<b>Certificate Name</b>	Displays the certificate name.
<b>Subject</b>	Displays the certificate subject information.



<b>Status</b>	Displays the certificate status. Select <i>View Certificate Detail</i> to view additional certificate status information.
---------------	---

The following options are available:

<b>Create New</b>	Select to create a new certificate request.
<b>View</b>	Select the checkbox next to the certificate, right-click, and select <i>View</i> in the right-click menu to view the entry.
<b>Delete</b>	Select the checkbox next to a certificate entry and select <i>Delete</i> to remove the certificate selected. Select <i>OK</i> in the confirmation dialog box to proceed with the delete action. Delete is also available in the right-click menu.
<b>Import</b>	Select to import a local certificate. Browse for the local certificate on the management computer and select <i>OK</i> to complete the import.
<b>View Certificate Detail</b>	Select the checkbox next to a certificate entry and select <i>View Certificate Detail</i> to view certificate details.
<b>Download</b>	Select the checkbox next to a certificate entry and select <i>Download</i> to download the certificate to your local computer.

**To create a local certificate request:**

1. Go to *System Settings > Certificates > Local Certificates*.
2. Select *Create New* in the toolbar. The *New Certificate* window opens.

**New Certificate**

**Certificate Name**

**Optional Information**

Organization Unit

Organization

Locality(City)

State/Province

Country/Region

Email

**Key Type**

**Key Size**

**Online SCEP Enrollment**

CA Server URL

Challenge Password

3. Configure the following settings:

<b>Certificate Name</b>	The name of the certificate.
<b>Key Size</b>	Select the key size from the drop-down list. Select one of: <i>512 Bit, 1024 Bit, 1536 Bit, or 2048 Bit.</i>
<b>Common Name (CN)</b>	Enter the common name of the certificate.
<b>Country (C)</b>	Select the country from the drop-down list.
<b>State/Province (ST)</b>	Enter the state or province.
<b>Locality (L)</b>	Enter the locality.
<b>Organization (O)</b>	Enter the organization for the certificate.
<b>Organization Unit (OU)</b>	Enter the organization unit.
<b>E-mail Address (EA)</b>	Enter the email address.

4. Select **OK** to save the setting. The request is sent and the status is listed as pending.



Only *Local Certificates* can be created. *CA Certificates* can only be imported

### To import a local certificate:

1. Go to *System Settings > Certificates > Local Certificates*.
2. Select *Import* in the toolbar. The *Import* dialog box opens.
3. Select *Choose File*, browse to the location of the certificate, and select *OK*.

### To view a local certificate:

1. Go to *System Settings > Certificates > Local Certificates*.
2. Select the certificates that you would like to see details about and select *View Certificate Detail* in the toolbar. The *Result* page opens.

Result	
Certificate Name	Fortinet_Local
Issuer	C = US, ST = California, L = Sunnyvale, O = Fortinet, OU = Certificate Authority, CN = support, emailAddress = support@fortinet.com
Subject	C = US, ST = California, L = Sunnyvale, O = Fortinet, OU = FortiAnalyzer, CN = FL-1KC3R10600116, emailAddress = support@fortinet.com
Valid From	2011-11-29 23:08:11 GMT
Valid To	2038-01-19 03:14:07 GMT
Version	3
Serial Number	04:03:3a
Extension	Name: X509v3 Basic Constraints Critical: no Content: CA:FALSE

OK

The following information is displayed:

<b>Certificate Name</b>	The name of the certificate.
<b>Issuer</b>	The issuer of the certificate.
<b>Subject</b>	The subject of the certificate.
<b>Valid From</b>	The date from which the certificate is valid.
<b>Valid To</b>	The last day that the certificate is valid. The certificate should be renewed before this date.
<b>Version</b>	The certificate's version.
<b>Serial Number</b>	The serial number of the certificate.
<b>Extension</b>	The certificate extension information.

3. Select *OK* to return to the local certificates list.

**To download a local certificate:**

1. Go to *System Settings > Certificates > Local Certificates*.
2. Select the certificates that you would like to download, select *Download* in the toolbar, and save the certificate to the desired location.

**To delete a local certificate:**

1. Go to *System Settings > Certificates > Local Certificates*.
2. Select the certificate or certificates that you would like to delete and select *Delete* in the toolbar.
3. Select *OK* in the confirmation dialog box to delete the certificate.

**CA certificates**

The FortiAnalyzer has one default CA certificate, Fortinet\_CA. In this sub-menu you can delete, import, view, and download certificates.

**To import a CA certificate:**

1. Go to *System Settings > Certificates > CA Certificates*.
2. Select *Import* in the toolbar. The *Import* dialog box opens.
3. Select *Choose File*, browse to the location of the certificate, and select *OK*.

**To view a CA certificate:**

1. Go to *System Settings > Certificates > CA Certificates*.
2. Select the certificates that you would like to see details about, then select *View Certificate Detail* in the toolbar. The *Result* page opens.

Result	
Certificate Name	Fortinet_CA
Issuer	C = US, ST = California, L = Sunnyvale, O = Fortinet, OU = Certificate Authority, CN = support, emailAddress = support@fortinet.com
Subject	C = US, ST = California, L = Sunnyvale, O = Fortinet, OU = Certificate Authority, CN = support, emailAddress = support@fortinet.com
Valid From	2000-04-09 01:25:49 GMT
Valid To	2038-01-19 03:14:07 GMT
Version	3
Serial Number	00
Extension	Name: X509v3 Basic Constraints
	Critical: no
	Content: CA:TRUE
OK	

The following information is displayed:

<b>Certificate Name</b>	The name of the certificate.
<b>Issuer</b>	The issuer of the certificate.
<b>Subject</b>	The subject of the certificate.

<b>Valid From</b>	The date from which the certificate is valid.
<b>Valid To</b>	The last day that the certificate is valid. The certificate should be renewed before this date.
<b>Version</b>	The certificate's version.
<b>Serial Number</b>	The serial number of the certificate.
<b>Extension</b>	The certificate extension information.

3. Select *OK* to return to the CA certificates list.

#### To download a CA certificate:

1. Go to *System Settings > Certificates > CA Certificates*.
2. Select the certificates that you would like to download, select *Download* in the toolbar, and save the certificate to the desired location.

#### To delete a CA certificate:

1. Go to *System Settings > Certificates > CA Certificates*.
2. Select the certificate or certificates that you would like to delete and select *Delete* in the toolbar.
3. Select *OK* in the confirmation dialog box to delete the certificate.

## Certificate revocation lists

When you apply for a signed personal or group certificate to install on remote clients, you can obtain the corresponding root certificate and Certificate Revocation List (CRL) from the issuing CA. When you receive the signed personal or group certificate, install the signed certificate on the remote client(s) according to the browser documentation. Install the corresponding root certificate (and CRL) from the issuing CA on the FortiAnalyzer unit according to the procedures given below.

#### To import a CRL:

1. Go to *System Settings > Certificates > CRL*.
2. Select *Import* in the toolbar. The *Import* dialog box opens.
3. Select *Choose File*, browse to the location of the CRL, and select *OK*.
4. Select *Choose File*, browse to the location of the certificate, and select *OK*.

#### To view a CRL:

1. Go to *System Settings > Certificates > CRL*.
2. Select the CRL that you would like to see details about, then select *View Certificate Detail* in the toolbar. The *Result* page opens.
3. When you are finished viewing the CRL details, select *OK* to return to the CRL list.

**To delete a CRL:**

1. Go to *System Settings > Certificates > CRL*.
2. Select the CRL or CRLs that you would like to delete and select *Delete* in the toolbar.
3. Select *OK* in the confirmation dialog box to delete the CRL.

## Event log

The logs created by Fortinet are viewable within the GUI. You can use the *FortiAnalyzer Log Message Reference*, available in the [Fortinet Document Library](#) to interpret the messages. You can view log messages in the FortiAnalyzer GUI that are stored in memory or on the internal hard disk, and use the column filters to filter the event logs that are displayed.

Go to *System Settings > Event Log* to view the local log list.

Historical Log							Download	Raw Log	Refresh
#	Date	Time	Level	User	Sub Type	Message			
151	2014-07-31	14:28:16	INFO	admin-GUI(172.1...	System manager event	path=system.admin.user:dashboard:dashboard,act=clear			
152	2014-07-31	14:20:17	INFO	admin-GUI(172.1...	System manager event	path=system.global,act=edit,log-mode=analyzer(collector)			
153	2014-07-31	14:18:52	INFO	admin-GUI(172.1...	System manager event	path=system.global,act=edit,log-mode=collector(analyzer)			
154	2014-07-31	13:22:18	INFO	system	FortiAnalyzer event	Deleted all log files of FGT20C0940144MDL due to device deletion.			
155	2014-07-31	13:22:18	INFO	admin	Device manager event	Deleted device fgshsfh (FGT20C0940144MDL)			
156	2014-07-31	13:21:13	INFO	admin	Device manager event	Added device fgshsfh (FGT20C0940144MDL)			
157	2014-07-31	10:30:00	INFO	admin-ssh(172.1...	System manager event	path=system.admin.setting,act=edit,http_port=80(99)			
158	2014-07-31	10:09:04	INFO	admin-ssh(172.1...	System manager event	path=system.admin.setting,act=edit,admin-https-redirect=disable(enable)			
159	2014-07-31	09:56:40	INFO	system	FortiAnalyzer event	total storage size 532(GB) is less than max limit 4000(GB), resume to receive logs.			
160	2014-07-31	09:56:38	INFO	system	FortiAnalyzer event	Device FE-2KB3R09600010 has exceeded its disk quota.			
161	2014-07-31	09:56:23	INFO		System manager event	fazcdb upgrade: Log Report configuration upgrade exit.			
162	2014-07-31	09:56:23	INFO		System manager event	fazcdb upgrade: Import Linda-Test(1012), 14 of 14 ADOM.			
163	2014-07-31	09:56:23	INFO		System manager event	fazcdb upgrade: Skip import FortiSandbox(829), 13 of 14 ADOM.			

The following information is displayed:

<b>Type</b>	<p>Select the type from the drop down list. Select one of the following: <i>Event Log</i>, <i>FDS Upload Log</i>, or <i>FDS Download Log</i>.</p> <p>When selecting <i>FDS Upload Log</i>, select the device from the drop-down list, and select <i>Go</i> to browse logs.</p> <p>When selecting <i>FDS Download Log</i>, select the service (<i>FDS</i>, <i>FCT</i>) from the <i>Service</i> drop-down list, select the event type (<i>All Event</i>, <i>Push Update</i>, <i>Poll Update</i>, <i>Manual Update</i>) from the <i>Event</i> drop-down list, and <i>Go</i> to browse logs.</p>
<b>#</b>	The log number.
<b>Date</b>	<p>The date that the log file was generated. Select the filter icon to create a filter for this column.</p> <p>Select the checkbox to enable this filter and specify the from and to date in the format YYYY-MM-DD. Select <i>Apply</i> to apply the filter, the filter. When the filter is enabled, the green filter enabled icon is displayed. You can also clear all filters.</p>
<b>Time</b>	<p>The time that the log file was generated. Select the filter icon to create a filter for this column.</p> <p>Select the checkbox to enable this filter and specify the from and to time in the format HH:MM:SS.</p> <p>Select <i>Apply</i> to apply the filter. When the filter is enabled, the green filter enabled icon is displayed. You can also clear all filters.</p>
<b>Level</b>	<p>The log level. Select the filter icon to create a filter for this column. The following log levels are displayed:</p> <ul style="list-style-type: none"> <li>• Debug</li> <li>• Information</li> <li>• Notice</li> <li>• Warning</li> <li>• Error</li> <li>• Critical</li> <li>• Alert</li> <li>• Emergency</li> </ul> <p>Select the checkbox to enable this filter. Select a value for the field from the drop-down list, select the checkbox (NOT) if required, and select the level from the drop-down list. Select <i>Apply</i> to apply the filter. When the filter is enabled, the green filter enabled icon is displayed. You can also clear all filters.</p>
<b>User</b>	<p>User information. Select the filter icon to create a filter for this column.</p> <p>Select the checkbox to enable this filter. Select a value for the field from the drop-down list, select the checkbox (NOT) if required, and enter the username in the text field. Select <i>Apply</i> to apply the filter. When the filter is enabled, the green filter enabled icon is displayed. You can also clear all filters.</p>

<b>Sub Type</b>	Log sub-type information. Select the filter icon, to create a filter for this column. Select the checkbox to enable this filter, then select one or more of the event types. Select <i>Apply</i> to apply the filter. When the filter is enabled, the green filter enabled icon is displayed. You can also clear all filters. The available event types are: <i>System manager event, FG-FM protocol event, Device configuration event, Deployment manager event, Real-time monitor event, Log and report manager event, Firmware manager event, FortiGuard service event, FortiClient manager event, FortiMail manager event, Debug I/O log event, Device manager event, Web service event, FortiAnalyzer event, Log daemon event, and Device manager event.</i>
<b>Message</b>	Log message details. Select the filter icon to create a filter for this column. Select the checkbox to enable this filter. Select a value for the field from the drop-down list, select the checkbox (NOT) if required, and enter a message in the text field. Select <i>Apply</i> to apply the filter. When the filter is enabled, the green filter enabled icon is displayed. You can also clear all filters.
<b>Pagination</b>	Use these page options to browse logs. You can select to display 50, 100, or 200 logs from the drop-down list.

The following options are available in the toolbar:

<b>Historical Log</b>	Select to view the historical log.
<b>Download</b>	Select to download the event log elog. You can download the file as a comma separated value (CSV) file or in a normal format. Select <i>OK</i> to save the file to your management computer.
<b>Raw Log/Formatted Table</b>	Select to display either raw logs for a formatted table.
<b>Refresh</b>	Select to refresh the information displayed in the log table.

## Task monitor

Using the task monitor, you can view the status of the tasks that you have performed.

Go to *System Settings > Task Monitor*, then select a task category in the *View* field. Select the history icon for task details.



The screenshot shows the Task Monitor interface. At the top, there is a 'Delete' button and a 'View: All' dropdown. Below this is a pagination bar with '<< first', '< prev', '1', '2', '3', '4', 'next >', 'last >>', and '25'. The main table has columns: ID, Source, Description, User, Status, Start Time, and ADOM. Task 164 is highlighted. Below the table, there is a summary bar for Task 164: 'Total:1 Pending:0 In Progress:0 Completed (Success:1 Warning:0 Error:0)'. A detailed view of Task 164 is shown in a modal window titled 'Task: 164, Record:0'. This view includes a table with columns: Name, Percentage, and Description. The tasks listed are: 'create system checkpoint' (0%), 'create system checkpoint' (5%), 'create system checkpoint frame' (15%), 'create system checkpoint' (35%), and 'create system checkpoint' (80%). The modal also shows a list of records on the right side.

ID	Source	Description	User	Status	Start Time	ADOM
164	System checkpoint	system checkpoint task	admin	Success	Mon Jun 23 11:12:24 2014	rootp
163	System checkpoint	system checkpoint task	admin	Success	23 11:08:35 2014	rootp
161	Device Manager	Delete device	admin	Success	19 15:12:18 2014	FortiSandbox
160	Device Manager	Add device	admin	Success	19 14:45:06 2014	root
159	Device Manager	Retrieve device	admin	Success	19 10:36:11 2014	52_ADOM
158	Device Manager	Add device	admin	Success	18 14:12:18 2014	50_ADOM
157	Device Manager	Add device	admin	Success	18 14:09:41 2014	50_ADOM
156	Import Wizard	Import device	admin	Success	18 13:39:13 2014	50_ADOM
155	Import Wizard	Import device	admin	Success	18 13:39:04 2014	50_ADOM
154	Import Wizard	Import Device Objs/Policy	admin	Success	Wed Jun 18 13:38:24 2014	50_ADOM
153	Import Wizard	Import Device Objs/Policy	admin	Success	Wed Jun 18 13:21:55 2014	50_ADOM

The following information is displayed:

<b>ID</b>	The identification number for a task.
<b>Source</b>	The platform from where the task is performed.
<b>Expand Arrow</b>	Select to display the specific actions taken under this task.
<b>Description</b>	The nature of the task.
<b>User</b>	The users who have performed the tasks.
<b>Status</b>	<p>The status of the task (hover over the icon to view the description):</p> <ul style="list-style-type: none"> <li><i>All</i>: All types of tasks.</li> <li><i>Done</i>: Completed with success.</li> <li><i>Error</i>: Completed without success.</li> <li><i>Cancelled</i>: User cancelled the task.</li> <li><i>Cancelling</i>: User is cancelling the task.</li> <li><i>Aborted</i>: The FortiAnalyzer system stopped performing this task.</li> <li><i>Aborting</i>: The FortiAnalyzer system is stopping performing this task.</li> <li><i>Running</i>: Being processed. In this status, a percentage bar appears in the Status column.</li> </ul>
<b>Start Time</b>	The time that the task was performed.
<b>ADOM</b>	The ADOM associated with the task.
<b>History</b>	Select the history icon to view task details.

The following options are available in the toolbar:

<b>Delete</b>	Remove the selected task or tasks from the list.
<b>View</b>	Select which tasks to view from the drop-down list, based on their status. Select one of the following: <i>Running, Pending, Done, Error, Cancelling, Cancelled, Aborting, Aborted, Warning, or All.</i>

## Advanced

The advanced tree menu enables you to configure SNMP, meta field data, and other settings. The following options are available:

<b>SNMP</b>	Select to configure FortiGate and FortiAnalyzer reporting through SNMP traps.
<b>Mail Server</b>	Select to configure mail server settings. See <a href="#">Mail server on page 115</a> .
<b>Syslog Server</b>	Select to configure syslog server settings. See <a href="#">Syslog server on page 115</a> .
<b>Meta Fields</b>	Select to configure meta-fields. See <a href="#">Meta fields on page 116</a> .
<b>Device Log Settings</b>	Select to configure log settings and access and to view the task monitor. See <a href="#">Device log settings on page 118</a> .
<b>File Management</b>	Select to configure automatic deletion settings for file and reports. See <a href="#">File management on page 119</a> .
<b>Advanced settings</b>	Select to configure ADOM mode, download the WSDL file, and configure the task list size. See <a href="#">Advanced settings on page 120</a> .

## SNMP

You can enable SNMP agent on FortiAnalyzer so that FortiAnalyzer can send traps to and receive queries from the computer that you designate as its SNMP manager. In this way, you can monitor your FortiAnalyzer with an SNMP manager.

## Configuring the SNMP agent

To configure the FortiAnalyzer SNMP agent:

1. Go to *System Settings > Advanced > SNMP*.

**SNMP**

**SNMP Agent** ☒ Enable

**Description** Documentation

**Location**

**Contact**

Apply

**SNMP v1/v2c** Create New

Community Name	Queries	Traps	Enable	Action
Documentation	✓	✓	✓	
Administration	✓	✓	✓	
Other	✗	✗	✓	

**SNMP v3** Create New

User Name	Security Level	Notification Hosts	Queries	Action
Documentation	No Authentication, No Privacy		✓	
Administration	Authentication, No Privacy		✓	
Other	Authentication, Privacy		✓	

2. Configure the following settings:

SNMP	
<b>SNMP Agent</b>	Select to enable the FortiAnalyzer SNMP agent. When this is enabled, it sends FortiAnalyzer SNMP traps.
<b>Description</b>	Type a description of this FortiAnalyzer system to help uniquely identify this unit.
<b>Location</b>	Type the location of this FortiAnalyzer system to help find it in the event it requires attention.
<b>Contact</b>	Type the contact information for the person in charge of this FortiAnalyzer system.

3. Configure SNMP v1/v2c communities. See [Configuring an SNMP v1/v2c community on page 107](#).
4. Configure SNMP v3 users. See [Configuring SNMPv3 users on page 111](#).

## Configuring an SNMP v1/v2c community

An SNMP community is a grouping of equipment for network administration purposes. You must configure your FortiAnalyzer to belong to at least one SNMP community so that community's SNMP managers can query the FortiAnalyzer system information and receive SNMP traps from it.



These SNMP communities do not refer to the FortiGate devices the FortiAnalyzer system is managing.

---

Each community can have a different configuration for SNMP traps and can be configured to monitor different events. You can add the IP addresses of up to eight hosts to each community. Hosts can receive SNMP device traps and information.

**To add an SNMP community to the FortiAnalyzer SNMP agent:**

1. Go to the SNMP v1/v2c section of the SNMP page, and click *Create New*. The New SNMP Community pane is displayed.

### New SNMP Community

Community Name

#### Hosts:

IP Address	Interface	Delete
------------	-----------	--------

#### Queries:

Protocol	Port	Enable
v1	<input type="text" value="161"/>	<input checked="" type="checkbox"/>
v2c	<input type="text" value="161"/>	<input checked="" type="checkbox"/>

#### Traps:

Protocol	Port	Enable
v1	<input type="text" value="162"/>	<input checked="" type="checkbox"/>
v2c	<input type="text" value="162"/>	<input checked="" type="checkbox"/>

SNMP Event	Enable
Interface IP changed	<input checked="" type="checkbox"/>
Log disk space low	<input checked="" type="checkbox"/>
HA Failover	<input checked="" type="checkbox"/>
System Restart	<input checked="" type="checkbox"/>
RAID Event	<input checked="" type="checkbox"/>
Power Supply Failed	<input checked="" type="checkbox"/>
CPU Overuse	<input checked="" type="checkbox"/>
Memory Low	<input checked="" type="checkbox"/>
Log Alert	<input checked="" type="checkbox"/>
Log Rate	<input checked="" type="checkbox"/>
Data Rate	<input checked="" type="checkbox"/>

2. Configure the following settings:

<b>Community Name</b>	Type a name to identify the SNMP community. If you are editing an existing community, you will be unable to change the name.
<b>Hosts</b>	The list of hosts that can use the settings in this SNMP community to monitor the FortiAnalyzer system. Select <i>Add</i> to create a new entry that you can edit.
<b>IP Address</b>	Type the IP address of an SNMP manager. By default, the IP address is 0.0.0.0 so that any SNMP manager can use this SNMP community.
<b>Interface</b>	Select the name of the interface that connects to the network where this SNMP manager is located from the drop-down list. You need to do this if the SNMP manager is on the Internet or behind a router.
<b>Delete</b>	Select the delete icon to remove this SNMP manager entry.
<b>Add</b>	Select to add a new default entry to the Hosts list that you can edit as needed. You can have up to eight SNMP manager entries for a single community.
<b>Queries</b>	Type the port number (161 by default) that the FortiAnalyzer system uses to send SNMPv1 and SNMPv2c queries to the FortiAnalyzer in this community. Enable queries for each SNMP version that the FortiAnalyzer system uses.
<b>Traps</b>	Type the Remote port number (162 by default) that the FortiAnalyzer system uses to send SNMPv1 and SNMPv2c traps to the FortiAnalyzer in this community. Enable traps for each SNMP version that the FortiAnalyzer system uses.
<b>SNMP Event</b>	<p>Enable the events that will cause the FortiAnalyzer unit to send SNMP traps to the SNMP manager.</p> <p>FortiAnalyzer SNMP events:</p> <ul style="list-style-type: none"> <li>• Interface IP changed</li> <li>• Log disk space low</li> <li>• CPU Overusage</li> <li>• Memory Low</li> <li>• System Restart</li> <li>• CPU usage exclude NICE threshold</li> <li>• RAID Event</li> <li>• This SNMP event is available for devices which support RAID.</li> <li>• High licensed device quota</li> <li>• High licensed log GB/day</li> <li>• Log Alert</li> <li>• Log Rate</li> <li>• Data Rate</li> </ul>

## Configuring SNMPv3 users

### To add an SNMP v3 user:

1. Go to the SNMP v3 section of the SNMP page, and click *Create New*. The New SNMP User pane is displayed.

New SNMP User

User Name

Security Level

No Authentication, No Privacy

Notification Hosts

Queries

☐ Enable
 Port 

161

SNMP Event

SNMP Event	Enable
Interface IP changed	<input checked="" type="checkbox"/>
Log disk space low	<input checked="" type="checkbox"/>
CPU Overuse	<input checked="" type="checkbox"/>
Memory Low	<input checked="" type="checkbox"/>
System Restart	<input checked="" type="checkbox"/>
CPU usage exclude NICE threshold	<input checked="" type="checkbox"/>
HA Failover	<input checked="" type="checkbox"/>
High licensed device quota	<input checked="" type="checkbox"/>
High licensed log GB/day	<input checked="" type="checkbox"/>
Log Alert	<input checked="" type="checkbox"/>
Log Rate	<input checked="" type="checkbox"/>
Data Rate	<input checked="" type="checkbox"/>

OK

Cancel

2. Configure the following settings:

<b>User Name</b>	The name of the SNMPv3 user.
<b>Security Level</b>	The security level of the user. Select one of the following: <ul style="list-style-type: none"> <li>• No Authentication, No Privacy</li> <li>• Authentication, No Privacy: Select the authentication algorithm (SHA1, MD5) and enter the password.</li> <li>• Authentication, Privacy: Select the authentication algorithm (SHA1, MD5), the private algorithm (AES, DES) and enter the password.</li> </ul>
<b>Notification Hosts</b>	The IP address or addresses of the host. Select the add icon to add multiple IP addresses.
<b>Queries</b>	Select to enable queries then enter the port number. The default port is 161.

**SNMP Event**

Enable the events that will cause the FortiAnalyzer unit to send SNMP traps to the SNMP manager.

FortiAnalyzer SNMP events:

- Interface IP changed
- Log disk space low
- CPU Overusage
- Memory Low
- System Restart
- CPU usage exclude NICE threshold
- RAID Event
- This SNMP event is available for devices which support RAID.
- High licensed device quota
- High licensed log GB/day
- Log Alert
- Log Rate
- Data Rate

**SNMP MIBs**

The Fortinet and FortiAnalyzer MIBs, along with the two RFC MIBs, can be obtained from Customer Service & Support (<https://support.fortinet.com>). You can download the *FORTINET-FORTIMANAGER-FORTIANALYZER-MIB.mib* MIB file in the firmware image file folder. The *FORTINET-CORE-MIB.mib* file is located in the main FortiAnalyzer 5.00 file folder.

To be able to communicate with the SNMP agent, you must include all of these MIBs into your SNMP manager. Generally your SNMP manager will be an application on your local computer. Your SNMP manager might already include standard and private MIBs in a compiled database that is ready to use. You must add the Fortinet and FortiAnalyzer proprietary MIBs to this database.

MIB file name or RFC	Description
<b>FORTINET-CORE-MIB.mib</b>	The proprietary Fortinet MIB includes all system configuration information and trap information that is common to all Fortinet products. Your SNMP manager requires this information to monitor Fortinet unit configuration settings and receive traps from the Fortinet SNMP agent.
<b>FORTINET-FORTIMANAGER-MIB.mib</b>	The proprietary FortiAnalyzer MIB includes system information and trap information for FortiAnalyzer units.
<b>RFC-1213 (MIB II)</b>	The Fortinet SNMP agent supports MIB II groups with the following exceptions. <ul style="list-style-type: none"> <li>• No support for the EGP group from MIB II (RFC 1213, section 3.11 and 6.10).</li> <li>• Protocol statistics returned for MIB II groups (IP/ICMP/TCP/UDP/etc.) do not accurately capture all Fortinet traffic activity. More accurate information can be obtained from the information reported by the Fortinet MIB.</li> </ul>



MIB file name or RFC	Description
<b>RFC-2665 (Ethernet-like MIB)</b>	The Fortinet SNMP agent supports Ethernet-like MIB information with the following exception.
	No support for the dot3Tests and dot3Errors groups.

## SNMP traps

Fortinet devices share SNMP traps, but each type of device also has traps specific to that device. For example FortiAnalyzer units have FortiAnalyzer specific SNMP traps. To receive Fortinet device SNMP traps, you must load and compile the FORTINET-CORE-MIB into your SNMP manager.

Traps sent include the trap message as well as the unit serial number (fnSysSerial) and host name (sysName). The Trap Message column includes the message included with the trap as well as the SNMP MIB field name to help locate the information about the trap.

Trap message	Description
<b>ColdStart, WarmStart, LinkUp, LinkDown</b>	Standard traps as described in RFC 1215.
<b>CPU usage high (fnTrapCpuThreshold)</b>	CPU usage exceeds the set percent. This threshold can be set in the CLI using the following commands: <pre>config system snmp sysinfo     set trap-high-cpu-threshold &lt;percentage value&gt; end</pre>
<b>CPU usage excluding NICE processes (fnSysCpuUsageExcludedNice)</b>	CPU usage excluding NICE processes exceeds the set percentage. This threshold can be set in the CLI using the following commands: <pre>config system snmp sysinfo     set trap-cpu-high-exclude-nice-threshold &lt;percentage value&gt; end</pre>
<b>Memory low (fnTrapMemThreshold)</b>	Memory usage exceeds 90 percent. This threshold can be set in the CLI using the following commands: <pre>config system snmp sysinfo     set trap-low-memory-threshold &lt;percentage value&gt; end</pre>
<b>Log disk too full (fnTrapLogDiskThreshold)</b>	Log disk usage has exceeded the configured threshold. Only available on devices with log disks.
<b>Temperature too high (fnTrapTempHigh)</b>	A temperature sensor on the device has exceeded its threshold. Not all devices have thermal sensors. See manual for specifications.
<b>Voltage outside acceptable range (fnTrapVoltageOutOfRange)</b>	Power levels have fluctuated outside of normal levels. Not all devices have voltage monitoring instrumentation.

Trap message	Description
<b>Power supply failure (fnTrapPowerSupplyFailure)</b>	Power supply failure detected. Not available on all models. Available on some devices which support redundant power supplies.
<b>Interface IP change (fnTrapIpChange)</b>	The IP address for an interface has changed. The trap message includes the name of the interface, the new IP address and the serial number of the Fortinet unit. You can use this trap to track interface IP address changes for interfaces with dynamic IP addresses set using DHCP or PPPoE.

### Fortinet & FortiAnalyzer MIB fields

The Fortinet MIB contains fields reporting current Fortinet unit status information. The tables below list the names of the MIB fields and describe the status information available for each one. You can view more details about the information available from all Fortinet MIB fields by compiling the fortinet.3.00.mib file into your SNMP manager and browsing the Fortinet MIB fields.

System MIB fields:

MIB field	Description
<b>fnSysSerial</b>	Fortinet unit serial number.

Administrator accounts:

MIB field	Description
<b>fnAdminNumber</b>	The number of administrators on the Fortinet unit.
<b>fnAdminTable</b>	Table of administrators.
fnAdminIndex	Administrator account index number.
fnAdminName	The user name of the administrator account.
fnAdminAddr	An address of a trusted host or subnet from which this administrator account can be used.
fnAdminMask	The netmask for fnAdminAddr.

Custom messages:

MIB field	Description
<b>fnMessages</b>	The number of custom messages on the Fortinet unit.

MIB fields and traps

MIB field	Description
<b>fmModel</b>	A table of all FortiAnalyzer models.

## Mail server

Configure SMTP mail server settings for alerts, edit existing settings, or delete mail servers.



If an existing mail server is set in an *Event Handler* configuration, the delete icon is removed and the mail server entry cannot be deleted.

Create New

Delete

<input type="checkbox"/>	SMTP Server	SMTP Server Port	E-Mail Account	Password
<input type="checkbox"/>	Gargomol	25		
<input type="checkbox"/>	mail@complan.com	25		
<input type="checkbox"/>	email@company.net	25	admin@company.net	*****
<input checked="" type="checkbox"/>	mail@nco.gov	25		

Select *Create New* in the toolbar to configure mail server settings.

**Mail Server Settings**

SMTP Server

SMTP Server Port

☐ Enable Authentication

E-Mail Account

Password

Configure the following settings and then select *OK*:

<b>SMTP Server</b>	Enter the SMTP server domain information, e.g. mail@company.com.
<b>SMTP Server Port</b>	Enter the SMTP server port number. The default port is 25.
<b>Enable Authentication</b>	Select to enable authentication.
<b>Email Account</b>	Enter an email account, e.g. admin@company.com.
<b>Password</b>	Enter the email account password.

## Syslog server

Configure syslog server settings for alerts, edit existing settings, or delete syslog servers. Select *Create New* in the toolbar to add a new syslog server.



If an existing syslog server is set in an *Event Handler* configuration, the delete icon is removed and the syslog server entry cannot be deleted.

<a href="#">Create New</a> <a href="#">Delete</a>		
<input type="checkbox"/>	Name	IP or FQDN : Port
<input type="checkbox"/>	Albatross	1.2.99.44:514
<input type="checkbox"/>	Gull	192.168.0.1:515
<input checked="" type="checkbox"/>	Tern	78.78.78.78:5

Select *Create New* to configure a new syslog server.

**Edit Syslog Server**

Name

IP address (or FQDN)

Port

Configure the following settings and then select *OK*:

<b>Name</b>	Enter a name for the syslog server.
<b>IP address (or FQDN)</b>	Enter the IP address or FQDN of the syslog server.
<b>Port</b>	Enter the syslog server port number. The default port is 514.

## Meta fields

Meta fields allow administrators to add extra information when configuring, adding, or maintaining FortiGate units. You can make the fields mandatory or optional, and set the length of the field.

With the fields set as mandatory, administrators must supply additional information when they create a new FortiGate object, such as an administrator account or firewall policy. Fields for this new information are added to the FortiGate unit dialog boxes in the locations where you create these objects. You can also provide fields for optional additional information.

Go to *System Settings > Advanced > Meta Fields* to configure meta fields.

<a href="#">Delete</a> <a href="#">Create New</a>					
<input type="checkbox"/>	Meta Fields	Length	Importance	Status	
▼ Devices(6)					
<input type="checkbox"/>	Company/Organization	50	Optional	Enabled	
<input type="checkbox"/>	Country	50	Optional	Enabled	
<input type="checkbox"/>	Province/State	50	Optional	Enabled	
<input type="checkbox"/>	City	50	Optional	Enabled	
<input type="checkbox"/>	Contact	50	Optional	Enabled	
<input checked="" type="checkbox"/>	Teeth	50	Required	Enabled	
▼ Device Groups(1)					
<input type="checkbox"/>	LookAtMe	20	Required	Disabled	
▼ Administrative Domain(1)					
<input type="checkbox"/>	Haircut	50	Optional	Enabled	

The following information is displayed:

<b>Meta Fields</b>	The name of this meta data field. Select the name to edit this field. See <a href="#">To edit a metadata field: on page 117</a> .
<b>Length</b>	The maximum length of this metadata field.
<b>Importance</b>	Indicates whether this field is required or optional.
<b>Status</b>	Indicates whether this field is enabled or disabled.

The following options are available in the toolbar:

<b>Create New</b>	Create a new meta data field for this object. See <a href="#">To create a new metadata field: on page 117</a> .
<b>Delete</b>	Delete the selected meta data field. See <a href="#">To delete metadata fields: on page 117</a> .

#### To create a new metadata field:

1. Go to *System Settings > Advanced > Meta Fields*.
2. Select *Create New* in the toolbar. The *Add Meta-field* window opens.
3. Configure the following settings:

<b>Object</b>	The system object to which this metadata field applies. Select either <i>Devices</i> , <i>Device Groups</i> , or <i>Administrative Domains</i> .
<b>Name</b>	Enter the label to use for the field.
<b>Length</b>	Select the maximum number of characters allowed for the field from the drop-down list (20, 50, or 255).
<b>Importance</b>	Select <i>Required</i> to make the field compulsory, otherwise select <i>Optional</i> .
<b>Status</b>	Select <i>Disabled</i> to disable this field. The default selection is <i>Enabled</i> .

4. Select *OK* to create the new field.

#### To edit a metadata field:

1. From the meta field list, either double-click a meta field, or right-click on a meta field then select *Edit*. The *Edit Meta-field* dialog box opens. Only the length, importance, and status of the meta field can be edited.
2. Edit the settings as required, then select *OK* to apply the changes.

#### To delete metadata fields:

1. From the meta field list, select the meta fields that you need to delete. The default meta fields cannot be deleted.
2. Select *Delete*, in the toolbar, then select *OK* in the confirmation box to delete the fields.

## Device log settings

The device log settings menu allows you to configure event logging, log rollover, and upload options.

1. Go to *System Settings > Advanced > Device Log Settings* to configure device log settings.

2. Configure the following settings and select *Apply* to apply your changes:

Registered Device Logs	
<b>Roll log file when size exceeds</b>	Enter the log file size. Range: 50 to 500 MB
<b>Roll log files at a regular time</b>	Select to roll logs daily or weekly. When selecting daily, select the hour and minute value in the drop-down lists. When selecting weekly, select the day, hour, and minute value in the drop-down lists.
<b>Upload logs using a standard file transfer protocol</b>	Select to upload logs and configure the following settings.
<b>Upload Server Type</b>	Select one of <i>FTP</i> , <i>SFTP</i> , or <i>SCP</i> .

<b>Upload Server IP</b>	Enter the IP address of the upload server.
<b>Username</b>	Select the username that will be used to connect to the upload server.
<b>Password</b>	Select the password that will be used to connect to the upload server.
<b>Remote Directory</b>	Select the remote directory on the upload server where the log will be uploaded.
<b>Upload Log Files</b>	Select to upload log files when they are rolled according to settings selected under <i>Roll Logs</i> or daily at a specific hour.
<b>Upload rolled files in gzipped format</b>	Select to gzip the logs before uploading. This will result in smaller logs, and faster upload times.
<b>Delete files after uploading</b>	Select to remove device log files from the FortiAnalyzer system after they have been uploaded to the Upload Server.
<b>Local Device Log</b>	
<b>Send the local event logs to FortiAnalyzer / FortiManager</b>	Select to send local event logs to another FortiAnalyzer or FortiManager device.
<b>Server IP</b>	Enter the IP address of the FortiAnalyzer or FortiManager.
<b>Upload Option</b>	Select to upload logs realtime or at a scheduled time. When selecting a scheduled time, you can specify the hour and minute to upload logs
<b>Severity Level</b>	Select the minimum log severity level from the drop-down list.
<b>Secure connection for log transmission</b>	Select to use a secure connection for log transmission.

## File management

FortiAnalyzer allows you to configure automatic deletion of device log files, quarantined files, reports, and content archive files after a set period of time.

To configure automatic deletion settings, go to *System Settings > Advanced > File Management*.

Configure the following settings:

<b>Device log files older than</b>	Select to enable this feature, enter a value in the text field, then select the time period from the drop-down list ( <i>Hours, Days, Weeks, or Months</i> )
<b>Quarantined files older than</b>	Select to enable this feature, enter a value in the text field, and select the time period from the drop-down list.

<b>Reports older than</b>	Select to enable this feature, enter a value in the text field, and select the time period from the drop-down list.
<b>Content archive files older than</b>	Select to enable this feature, enter a value in the text field, and select the time period from the drop-down list.

## Advanced settings

To view and configure advanced settings options, go to the *System Settings > Advanced > Advanced Settings* page.

Advanced Settings

Offline Mode ?

☒ Disable
 ☐ Enable

ADOM Mode ?

☒ Normal
 ☐ Advanced

Download WSDL File

☐ Legacy Operations
 ☒ System Commands
 ☐ CLI Configuration
 ☒ Device Manager Commands
 ☒ Device Manager Database
 ☒ Task Database
 ☒ Security Console
 ☒ Policy Package
 ☒ System Template
 ☒ ADOM Objects
 ☒ CDB Auxiliary
 

Download

Chassis Management

☐

Chassis Update Interval (4 - 1440 minutes)

15

Configuration Changes Received from FortiGate

☒ Automatically accept
 ☐ Prompt Administrator to accept

Task List Size

2000

Verify Installation

☒

Allow Install Interface Policy Only

☐

Apply



Advanced ADOM mode will allow users to assign VDOMs from a single device to different ADOMs, but will result in a reduced operation mode and more complicated management scenarios. It is recommended for advanced users only.

Configure the following settings and then select *Apply*:

<b>ADOM Mode</b>	<p>Select either <i>Normal</i> or <i>Advanced</i>.</p> <p>In normal mode, you can only add FortiGate devices to an ADOM. Advanced mode allows you to assign VDOMs from a single device to different ADOMs. Note that this results in a reduced operation mode and more complicated management and should therefore only be used by advanced users.</p>
------------------	--



**Download WSDL file**

Select the required WSDL functions and select the Download button to download the WSDL file to your management computer. When selecting *Legacy Operations*, no other options can be selected. Web services is a standards-based, platform independent, access method for other hardware and software application programming interfaces (APIs). The file itself defines the format of commands the FortiAnalyzer unit will accept, as well as the response to expect. Using the WSDL file, third-party or custom applications can communicate with the FortiAnalyzer unit and operate it or retrieve information just as an admin user would from the GUI or CLI.

**Task List Size**

Set a limit on the size of the task list.

# FortiView

In the *FortiView* tab, you can view different live summaries of log data in *Summary View* as well as log data in *Log View*. FortiView summaries are generated from the log data indexed in the FortiAnalyzer SQL DB, which is retrieved from connected devices. You can drill down FortiView summaries to log level.



When rebuilding the SQL database, FortiView will not be available until after the rebuild is completed. Select the *Show Progress* link in the message to view the status of the SQL rebuild.

---

## FortiView

Use FortiView to drill down real-time and historical traffic from log devices by sources, applications, destinations, web sites, threats, cloud applications, cloud users, system and admin events, SSL and dialup IPsec, site to site IPsec, rogue APs, and resource usage. Each FortiView summary view can be filtered by a variety of attributes, as well as by device and time period. These attributes can be selected using the right-click context menu. Results can also be filtered using the various columns.

The following summary views are available:

- [Top Sources](#)
- [Top Applications](#)
- [Top Destinations](#)
- [Top Web Sites](#)
- [Top Threats](#)
- [Top Cloud Applications/Users](#)
- [System Events](#)
- [Admin Logins](#)
- [SSL & Dialup IPsec](#)
- [Site-to-Site IPsec](#)
- [Rogue APs](#)
- [Resource usage](#)

## Top Sources

The *Top Sources* dashboard displays information about the sources of traffic on your unit. You can drill down the displayed information, select the device and time period, and apply search filters.

Source	Device	Threat Score(Blocked/Allowed)	Sessions(Blocked/Allowed)	Bytes(Sent/Received)
172.16.106.171	VIVIAN-2008R2-2	54910	5683	398.41KB/1.70MB
172.16.106.190	PC91	34520	3465	405.55KB/1.29KB
172.16.86.55	WIN732B80	0	1809	117.41KB/221.99KB
172.16.86.55	WIN732B80	18070	1807	0B/0B
94.141.49.123	94.141.49.123	0	1684	112.82KB/6.23MB
172.16.86.114	ubuntu		1674	259.56KB/11.47KB
172.18.3.250	SIMON-DESKTOP		1315	307.85KB/260.85KB
172.16.78.29	172.16.78.29		1204	688.23KB/1.22MB
37.140.192.217	server85.hosting.reg.ru		1155	77.83KB/4.30MB
77.20.238.3	...		1067	72.05KB/3.98MB
172.16.78.208	172.16.78.208		991	70.04KB/325.50KB
172.16.96.157	WIN732B80		905	58.62KB/112.04KB
172.16.96.157	WIN732B80		903	0B/0B
178.217.185.68	vps4055		814	54.39KB/3.00MB
172.16.86.58	WIN732B80	0	760	60.12KB/298.51KB
172.16.86.58	WIN732B80	7520	752	0B/0B

50 Items per Page <<First <Prev 1 2 3 >Next >>Last Go to Page 1 of 31

The following information is displayed:

<b>Source</b>	Displays the source IP address and/or user name, if applicable. Select the column header to sort entries by source. You can apply a search filter to the source ( <code>srcip</code> ) column.
<b>Device</b>	Displays the device IP address or host name. Select the column header to sort entries by device. You can apply a search filter to the device ( <code>dev_src</code> ) column.
<b>Threat Score (Blocked/Allowed)</b>	Displays the threat score for blocked and allowed traffic. Select the column header to sort entries by threat score.
<b>Sessions (Blocked/Allowed)</b>	Displays the number of sessions blocked and allowed. Select the column header to sort entries by sessions.
<b>Bytes (Sent/Received)</b>	Displays the value for sent and received packets. Select the column header to sort entries by bytes.

The following options are available:

<b>Refresh</b>	Refresh the displayed information.
<b>Search</b>	Click the search field to add a search and select the <b>GO</b> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <b>GO</b> button to apply the device filter.

<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <b>GO</b> button to apply the time period filter.
<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Go</b>	Select the <b>GO</b> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	
<b>Application</b>	<p>Select to drill down by application to view application related information including the application, number of sessions (blocked/allowed), and bytes (sent/received).</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the application (<code>app</code>) column to further filter the information displayed. Select the <b>GO</b> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Sources</i> page.</p>
<b>Destination</b>	<p>Select to drill down by destination to view destination related information including the destination IP address and geographic region, the threat score (blocked/allowed), number of sessions (blocked/allowed), and bytes (sent/received).</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the destination (<code>dstip</code>) column to further filter the information displayed. Select the <b>GO</b> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Sources</i> page.</p>
<b>Threat</b>	<p>Select to drill down by threat to view threat related information including the threat type, category, threat level, threat score (blocked/allowed), and number of incidents (blocked/allowed).</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the threat (<code>threat</code>) or category (<code>threat-type</code>) columns to further filter the information displayed. Select the <b>GO</b> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Sources</i> page.</p>
<b>Domain</b>	Select to drill down by domain to view domain related information including domain, category, browsing time, threat score (blocked/allowed), number of sessions (blocked/allowed), and bytes (sent/received). You can select to sort entries displayed by selecting the column header. Select the <b>GO</b> button to apply the search filter. Select the return icon to return to the <i>Top Sources</i> page.

**Category**

Select to drill down by category to view category related information including category, browsing time, threat score (blocked/allowed), number of sessions (blocked/allowed), and bytes (sent/received). You can select to sort entries displayed by selecting the column header. Select the **GO** button to apply the search filter. Select the return icon to return to the *Top Sources* page.

**Sessions**

Select to drill down by sessions to view session related information including date/time, source/device, destination IP address and geographic region, service, bytes (sent/received), user, application, and security action. You can select to sort entries displayed by selecting the column header. You can apply a search filter in the destination (*dstip*), service (*service*), user (*user*), or application (*app*) columns to further filter the information displayed. Select the **GO** button to apply the search filter. Select the return icon to return to the *Top Sources* page.

**Search**

Add a search filter and select the **GO** button to apply the filter.

## Top Applications

The *Top Applications* dashboard shows information about the applications being used on your network, including the application name, category, and risk level. You can drill down the displayed information, select the device and time period, and apply search filters.

Application	Category	Risk	Sessions(Blocked/Allowed)	Bytes(Sent/Received)
Tor	Proxy	★★★★	2	17.72KB/22.11KB
Hola.Unblocker	Proxy	★★★★	31	48.20KB/194.83KB
Proxy.HTTP	Proxy	★★★★	1	727.13KB/12.05MB
QQ.Download	P2P	★★★★	1	372B/386B
BitTorrent	P2P	★★★★	1	129B/0B
Teamviewer	Remote.Acc	★★★★	49	83.13KB/149.64KB
Xunlei.Kankan	P2P	★★★★	5	3.78KB/48.88KB
PPStream	P2P	★★★★	3	284B/9.24KB
BitTorrent_Download	P2P	★★★★	3	8.98KB/340.76KB
TTPlayer	P2P	★★★★	186	8.46MB/156.76KB
Telnet	Remote.Access	★★★★	6	88.29KB/114.94KB
QQLive	P2P	★★★★	1	520B/170B
Raysource	P2P	★★★★	44	13.19KB/33.36KB
LogMeIn	Remote.Access	★★★★	7	7.97KB/24.58KB
FlashGet	P2P	★★★★	2	1.77KB/15.37KB

The following information is displayed:

**Application**

Displays the application name and service. Select the column header to sort entries by application. You can apply a search filter to the application (*app*) column.

<b>Category</b>	Displays the application category. Select the column header to sort entries by category. You can apply a search filter to the category ( <code>appcat</code> ) column.
<b>Risk</b>	<p>Displays the application risk level. Hover the mouse cursor over the entry in the column for additional information. Select the column header to sort entries by risk. Risk uses a new 5-point risk rating. The rating system is as follows:</p> <ul style="list-style-type: none"> <li>• <i>Critical</i>: Applications that are used to conceal activity to evade detection.</li> <li>• <i>High</i>: Applications that can cause data leakage, are prone to vulnerabilities, or downloading malware.</li> <li>• <i>Medium</i>: Applications that can be misused.</li> <li>• <i>Elevated</i>: Applications that are used for personal communications or can lower productivity.</li> <li>• <i>Low</i>: Business related applications or other harmless applications.</li> </ul>
<b>Sessions (Blocked/Allowed)</b>	Displays the number of sessions blocked and allowed. Select the column header to sort entries by sessions.
<b>Bytes (Sent/Received)</b>	Displays the value for sent and received packets. Select the column header to sort entries by bytes.

The following options are available:

<b>Refresh</b>	Refresh the displayed information.
<b>Search</b>	Click the search field to add a search filter and select the <i>GO</i> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <i>GO</i> button to apply the device filter.
<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <i>GO</i> button to apply the time period filter.
<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Go</b>	Select the <i>GO</i> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.

**Right-click menu****Source**

Select to drill down by source to view source related information including the source IP address, device MAC address or FQDN, threat score (blocked/allowed), number of sessions (blocked/allowed), and bytes (sent/received).

You can select to sort entries displayed by selecting the column header.

You can apply a search filter in the source (`srcip`) and device (`dev_src`) columns to further filter the information displayed. Select the **GO** button to apply the search filter.

Select the return icon to return to the *Top Applications* page.

**Destination**

Select to drill down by destination to view destination related information including the destination IP address and geographic region, the threat score (blocked/allowed), number of sessions (blocked/allowed), and bytes (sent/received). You can select to sort entries displayed by selecting the column header.

You can apply a search filter in the destination (`dstip`) column to further filter the information displayed. Select the **GO** button to apply the search filter.

Select the return icon to return to the *Top Applications* page.

**Threat**

Select to drill down by threat to view threat related information including the threat type, category, threat level, threat score (blocked/allowed), and number of incidents (blocked/allowed).

You can select to sort entries displayed by selecting the column header.

You can apply a search filter in the threat (`threat`) or category (`threat-type`) columns to further filter the information displayed. Select the **GO** button to apply the search filter.

Select the return icon to return to the *Top Applications* page.

**Sessions**

Select to drill down by sessions to view session related information including date/time, source/device, destination IP address and geographic region, service, bytes (sent/received), user, application, and security action.

You can select to sort entries displayed by selecting the column header.

You can apply a search filter in the destination (`dstip`), service (`service`), user (`user`), or application (`app`) columns to further filter the information displayed. Select the **GO** button to apply the search filter.

Select the return icon to return to the *Top Applications* page.

**Search**

Add a search filter and select the **GO** button to apply the filter.

## Top Destinations

The *Top Destinations* dashboard shows information about the destination IP addresses of traffic on your FortiGate unit, as well as the application used. You can drill down the displayed information, select the device and time period, and apply search filters.

Destination	Application	Sessions(Blocked/Allowed)	Bytes(Sent/Received)
172.16.100.100	DNS, LDAP_UDP, 137/udp, 389/udp, 53/udp	129856	11.96MB/31.75MB
172.16.100.80	DCE-RPC, DNS, DNS, HTTP, NTP, NetBIOS.Name.Service, ...	78868	7.39MB/14.48MB
173.194.33.98	Google.Translate, HTTP, HTTP.BROWSER, HTTP.BROWSER_Chrom...	65808	7.11MB/31.87MB
208.91.114.96	DNS, HTTP, 53/udp	58480	3.85MB/217.06MB
191.236.104.206	Application	10457	13.19MB/301.57MB
208.91.112.1	pp, 53/udp	6905	1.11MB/3.23MB
8.8.8.8	53/udp	6133	414.00KB/838.21KB
172.16.100.117		4798	3.59MB/10.15MB
192.168.100.20	HTTP, HTTPS, TCP-541, 53/udp, 888...	4447	712.74KB/2.81MB
172.18.26.32		3356	2.02MB/495.39KB
208.91.114.36	HTTPS, PING, SSL, 443/tcp, 443/tcp	3242	3.03MB/47.20MB
208.91.114.161	DNS, FGD_SPAM, HTTP, HTTPS, SSL, 53/udp, 8888/udp	3108	748.54KB/10.47MB
172.23.30.202	HTTP, service8080, 8443/tcp	2802	419.30KB/0B
172.23.30.201	HTTP, service8080, 8443/tcp	2769	414.84KB/0B
172.23.20.101	HTTP, service8080, 8443/tcp	2714	389.65KB/0B

The following information is displayed:

<b>Destination</b>	Displays the destination IP address and geographic region. A flag icon is displayed to the left of the IP address. Select the column header to sort entries by destination. You can apply a search filter to the destination ( <code>dstip</code> ) column.
<b>Application</b>	Displays the application port and service. When the information displayed exceeds the column width, hover the mouse cursor over the entry in the column for a full list. Select the column header to sort entries by application. You can apply a search filter to the application ( <code>app</code> ) column.
<b>Sessions (Blocked/Allowed)</b>	Displays the number of sessions blocked/allowed. Select the column header to sort entries by sessions.
<b>Bytes (Sent/Received)</b>	Displays the value for sent and received packets. Select the column header to sort entries by bytes.

The following options are available:

<b>Refresh</b>	Refresh the displayed information.
<b>Search</b>	Click the search field to add a search filter and select the <b>GO</b> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <b>GO</b> button to apply the device filter.
<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <b>GO</b> button to apply the time period filter.



<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Go</b>	Select the <i>GO</i> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	
<b>Application</b>	<p>Select to drill down by application to view application related information including the service and port, number of sessions (blocked/allowed), and bytes (sent/received).</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the application (<i>app</i>) column to further filter the information displayed. Select the <i>GO</i> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Destinations</i> page.</p>
<b>Source</b>	<p>Select to drill down by source to view source related information including the source IP address, device MAC address or FQDN, threat score (blocked/allowed), number of sessions (blocked/allowed), and bytes (sent/received).</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the source (<i>srcip</i>) and device (<i>dev_src</i>) columns to further filter the information displayed. Select the <i>GO</i> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Destinations</i> page.</p>
<b>Threat</b>	<p>Select to drill down by threat to view threat related information including the threat type, category, threat level, threat score (blocked/allowed), and number of incidents (blocked/allowed). You can select to sort entries displayed by selecting the column header. You can apply a search filter in the threat (<i>threat</i>) or category (<i>threattype</i>) columns to further filter the information displayed. Select the <i>GO</i> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Destinations</i> page.</p>
<b>Sessions</b>	<p>Select to drill down by sessions to view session related information including date/time, source/device, destination IP address and geographic region, service, bytes (sent/received), user, application, and security action.</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the destination (<i>dstip</i>), service (<i>service</i>), user (<i>user</i>), or application (<i>app</i>) columns to further filter the information displayed. Select the <i>GO</i> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Sources</i> page.</p>
<b>Search</b>	Add a search filter and select the <i>GO</i> button to apply the filter.

## Top Web Sites

The *Top Web Sites* dashboard lists the top allowed and top blocked web sites. You can drill down the displayed information, select the device and time period, and apply search filters.

Domain	Category	Browsing Time	Threat Score(Blocked/Allowed)	Sessions(Blocked/Allowed)	Bytes(Sent/Received)
baidu.com	File Sharing and Storage, Inform...	6h 27m 36s	10	839	3.08MB/12.73MB
doubleclick.net	Advertising	12m 23s	4110	668	3.33MB/11.92MB
pubm.com	Advertising, Business, Content S...	2m 25s	1020	645	10.03MB/2.05MB
115.com	Information Technology	1h 35m 3s	0	612	704.69KB/864.21KB
Source	ertainment, Instant Messaging...	5h 14m 45s	140	608	637.90KB/1.76MB
Destination	vertising, News and Media	26m 53s	2880	565	675.34KB/10.04MB
Category	usiness, Freeware and Software...	7h 54m 4s	1620	497	2.53MB/39.14MB
Threat	icious Websites	1h 47m 48s	39640	495	78.70KB/546.27KB
Sessions	vertising, Business, Informatio...	48m 11s	2480	446	226.77KB/134.91KB
Search "115.com"	vertising, Malicious Websites	40s	240	439	11.38MB/7.63MB
yahoo.com	ormation Technology	4h 21m 43s	1600	425	795.15KB/6.55MB
adsafeprotected.com	Advertising, Finance and Banking...	1h 35m 17s	530	346	3.31MB/22.25MB
lijit.com	Advertising	2m 15s	280	332	706.80KB/2.99MB
scorecardresearch.com	Advertising, Information Technol...	2m 6s	20	295	1.22MB/1.27MB
googlesyndication.com	Business	1h 29m 32s	970	282	1.48MB/847.18KB
sinaimg.cn	Advertising, Search Engines and ...	6m 31s	1380	281	2.00MB/10.11MB
	Content Servers, File Sharing an...	17m 41s	910	280	652.71KB/15.13MB

The following information is displayed:

<b>Domain</b>	Displays the domain name. Select the column header to sort entries by domain. You can apply a search filter to the domain (domain) column. This column is only shown when <i>Domain</i> is selected in the domain/category drop-down list.
<b>Category</b>	Displays the web site category. When the information displayed exceeds the column width, hover the mouse cursor over the entry in the column for a full list. Select the column header to sort entries by category.
<b>Browsing Time</b>	Displays the web site browsing time. Select the column header to sort entries by browsing time.
<b>Threat Score (Blocked/Allowed)</b>	Displays the web site threat score for blocked and allowed traffic. Select the column header to sort entries by threat score.
<b>Sessions (Blocked/Allowed)</b>	Displays the number of sessions blocked and allowed. Select the column header to sort entries by sessions.
<b>Bytes (Sent/Received)</b>	Displays the value for sent and received packets. Select the column header to sort entries by bytes.

The following options are available:

<b>Refresh</b>	Refresh the displayed information.
----------------	------------------------------------

<b>Search</b>	Click the search field to add a search filter and select the <i>GO</i> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <i>GO</i> button to apply the device filter.
<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <i>GO</i> button to apply the time period filter.
<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Domain/Category</b>	Select to view information based on either the domain or the category.
<b>Go</b>	Select the <i>GO</i> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	
<b>Source</b>	Select to drill down by source to view source related information including the source IP address, device IP address or FQDN, threat score (blocked/allowed), number of sessions (blocked/allowed), and bytes (sent/received). You can select to sort entries displayed by selecting the column header. You can apply a search filter in the source ( <i>srcip</i> ) and device ( <i>dev_src</i> ) columns to further filter the information displayed. Select the <i>GO</i> button to apply the search filter. Select the return icon to return to the <i>Top Web Sites</i> page.
<b>Destination</b>	Select to drill down by destination to view destination related information including the destination IP address and geographic region, the threat score (blocked/allowed), number of sessions (blocked/allowed), and bytes (sent/received). You can select to sort entries displayed by selecting the column header. You can apply a search filter in the destination ( <i>dstip</i> ) column to further filter the information displayed. Select the <i>GO</i> button to apply the search filter. Select the return icon to return to the <i>Top Web Sites</i> page.

<b>Category</b>	<p>Select to drill down by category to view category related information including category, browsing time, threat score (blocked/allowed), number of sessions (blocked/allowed), and bytes (sent/received).</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>Select the <b>GO</b> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Web Sites</i> page.</p>
<b>Threat</b>	<p>Select to drill down by threat to view threat related information including the threat type, category, threat level, threat score (blocked/allowed), and number of incidents (blocked/allowed). You can select to sort entries displayed by selecting the column header. You can apply a search filter in the threat (<code>threat</code>) or category (<code>threattype</code>) columns to further filter the information displayed. Select the <b>GO</b> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Destinations</i> page.</p>
<b>Sessions</b>	<p>Select to drill down by sessions to view session related information including date/time, source/device, destination IP address and geographic region, service, bytes (sent/received), user, application, and security action.</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the destination (<code>dstip</code>), service (<code>service</code>), user (<code>user</code>), or application (<code>app</code>) columns to further filter the information displayed. Select the <b>GO</b> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Sources</i> page.</p>
<b>Search</b>	Add a search filter and select the <b>GO</b> button to apply the filter.

## Top Threats

The *Top Threats* dashboard lists the top users involved in incidents, as well as information on the top threats to your network. You can drill down the displayed information, select the device and time period, and apply search filters.



If you are running FortiOS v5.0.x, you must enable *Client Reputation* in the security profiles on the FortiGate in order to view entries in the *Top Threats* section of FortiView in FortiAnalyzer.

The following incidents are considered threats:

- Risk applications detected by application control
- Intrusion incidents detected by IPS
- Malicious web sites detected by web filtering
- Malware/botnets detected by antivirus.

Threat	Category	Threat Level	Threat Score(Blocked/Allowed)	Incidents(Blocked/Allowed)
ips	IPS	Low	18434457	9861610
Apache.APR.PSprintf.Memory.Corruption	IPS	Low	5280	133
FrontAccounting			50	4
NcaterCMS.Arc			50	4
Flip.Previewther			35	3
Php.Blue.Dragon			15	3

The following information is displayed:

<b>Threat</b>	Displays the threat type. Select the column header to sort entries by threat. You can apply a search filter to the threat ( <code>threat</code> ) column.
<b>Category</b>	Displays the threat category. Select the column header to sort entries by category. You can apply a search filter to the category ( <code>threattype</code> ) column.
<b>Threat Level</b>	Displays the threat level. Select the column header to sort entries by threat level.
<b>Threat Score (Blocked/Allowed)</b>	Displays the threat score for blocked and allowed traffic. Select the column header to sort entries by threat score.
<b>Incidents (Blocked/Allowed)</b>	Displays the number of incidents blocked and allowed. Select the column header to sort entries by incidents.

The following options are available:

<b>Refresh</b>	Refresh the displayed information.
<b>Search</b>	Click the search field to add a search filter and select the <i>GO</i> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <i>GO</i> button to apply the device filter.
<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <i>GO</i> button to apply the time period filter.

<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Go</b>	Select the <i>GO</i> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	
<b>Source</b>	<p>Select to drill down by source to view source related information including the source IP address, device MAC address or FQDN, threat score (blocked/allowed), bytes (sent/received), and incidents (blocked/allowed). You can select to sort entries displayed by selecting the column header. You can apply a search filter in the source (<code>srcip</code>) and device (<code>dev_src</code>) columns to further filter the information displayed. Select the <i>GO</i> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Threats</i> page.</p>
<b>Destination</b>	<p>Select to drill down by destination to view destination related information including the destination IP address and geographic region, the threat score (blocked/allowed), bytes (sent/received), and incidents (blocked/allowed).</p> <p>You can select to sort entries displayed by selecting the column header. You can apply a search filter in the destination (<code>dstip</code>) column to further filter the information displayed. Select the <i>GO</i> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Threats</i> page.</p>
<b>Sessions</b>	<p>Select to drill down by sessions to view session related information including date/time, source/device, destination IP address and geographic region, service, bytes (sent/received), user, application, and security action.</p> <p>You can select to sort entries displayed by selecting the column header. You can apply a search filter in the destination (<code>dstip</code>), service (<code>service</code>), user (<code>user</code>), or application (<code>app</code>) columns to further filter the information displayed. Select the <i>GO</i> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Threats</i> page.</p>
<b>Search</b>	Add a search filter and select the <i>GO</i> button to apply the filter.

## Top Cloud Applications/Users

The *Top Cloud Applications/Users* dashboard displays information about the cloud application/user traffic on your FortiGate unit. You can drill down the displayed information, select the device and time period, and apply search filters.

Application	Category	Risk	Login IDs	Sessions(Blocked/Allowed)	File (Up/Down)	Videos Played	Bytes(Sent/Received)
SourceForge_File.Download	Storage.Backup	Low	6	21	0 / 21	0	0B/5.77MB
Baidu.Pan_File.Upload	Storage.Backup	Low	1	31	31 / 0	0	2.07GB/0B
Baidu.Pan_File.Download	Storage.Backup	Low	2	13	0 / 13	0	0B/15.52GB
115Disk_File	Cloud Users	Low	2	3623	3623 / 0	0	11.92GB/0B
Youku_Video	Files	Low	1	1	0 / 0	1	0B/0B
Facebook_Lo	Video	Low	1	1	0 / 0	0	0B/0B
Vimeo_Video	Sessions	Low	4	7	0 / 0	7	0B/0B
Vimeo_Video	Search "Baidu.Pan_File.Download"	Low	4	10	0 / 0	3	0B/0B
Onedrive_Lo		Low	1	1	0 / 0	0	0B/0B
115Disk_Login	Storage.Backup	Low	1	1	0 / 0	0	0B/0B
360.Yunpan_Login	Storage.Backup	Low	1	1	0 / 0	0	0B/0B
Sina_Login	General.Interest	Low	2	2	0 / 0	0	0B/0B
QQ_Logout	Collaboration	Low	1	1	0 / 0	0	0B/0B
YouTube_Video.Access	Video/Audio	Low	20	78	0 / 0	78	0B/0B
Tencent.Weibo_Login	Social.Media	Low	1	1	0 / 0	0	0B/0B

The following information is displayed:

<b>Application</b>	Displays the application name. Select the column header to sort entries by application. You can apply a search filter to the application (app) column.
<b>User</b>	Displays the user name. Select the column header to sort entries by user. This column is only shown when <i>Cloud Users</i> is selected in the applications/users drop-down list.
<b>Category</b>	Displays the application category. Select the column header to sort entries by category. You can apply a search filter to the category (appcat) column. This column is only shown when <i>Cloud Applications</i> is selected in the applications/users drop-down list.
<b>Risk</b>	<p>Displays the application risk level. Hover the mouse cursor over the entry in the column for additional information. Select the column header to sort entries by risk. Risk uses a new 5-point risk rating. The rating system is as follows:</p> <ul style="list-style-type: none"> <li><b>Critical:</b> Applications that are used to conceal activity to evade detection.</li> <li><b>High:</b> Applications that can cause data leakage, are prone to vulnerabilities, or downloading malware.</li> <li><b>Medium:</b> Applications that can be misused.</li> <li><b>Elevated:</b> Applications that are used for personal communications or can lower productivity.</li> <li><b>Low:</b> Business related applications or other harmless applications.</li> </ul> <p>This column is only shown when <i>Cloud Applications</i> is selected in the applications/users drop-down list.</p>
<b>Login IDs</b>	Displays the number of login IDs associated with the application. Select the column header to sort entries by login ID. This column is only shown when <i>Cloud Applications</i> is selected in the applications/users drop-down list.

<b>Sessions (Blocked/Allowed)</b>	Displays the number of sessions associated with the application that are blocked or allowed. Select the column header to sort entries by sessions.
<b>File (Up/Down)</b>	Displays the number of files uploaded and downloaded. Hover the mouse cursor over the entry in the column for additional information. Select the column header to sort entries by file.
<b>Videos Played</b>	Displays the number of videos played using the application. Select the column header to sort entries by videos played.
<b>Bytes (Sent/Received)</b>	Displays the value for sent and received packets. Select the column header to sort entries by bytes.

The following options are available:

<b>Search</b>	Click the search field to add a search filter and select the <i>GO</i> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <i>GO</i> button to apply the device filter.
<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <i>GO</i> button to apply the time period filter.
<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Cloud Applications / Cloud Users</b>	Select to view information based on either applications or users.
<b>Go</b>	Select the <i>GO</i> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	



<b>Cloud Users / Cloud Applications</b>	<p>Select to drill down by cloud users to view user related information including IP address, source IP address, number of files uploaded and downloaded, number of videos plays, number of sessions, and bytes (sent/received).</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the user (<code>clouduser</code>) and source (<code>source</code>) columns to further filter the information displayed. Select the <b>GO</b> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Cloud Applications</i> page.</p>
<b>Files</b>	<p>Select to drill down by files to view file related information including the user email address, source IP address, file name, and file size.</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the user (<code>clouduser</code>) and source (<code>srcip</code>) columns to further filter the information displayed. Select the <b>GO</b> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Cloud Applications</i> page.</p>
<b>Videos</b>	<p>Select to drill down by videos to view video related information including the user email address, source IP address, file name, and file size.</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the user (<code>clouduser</code>) and source (<code>srcip</code>) columns to further filter the information displayed. Select the <b>GO</b> button to apply the search filter.</p> <p>Select the return icon to return to the <i>Top Cloud Applications</i> page.</p>
<b>Sessions</b>	<p>Select to drill down by sessions to view session related information including the date and time, source/device IP address, destination IP address, service, number of packets sent and received, user, application, and security action.</p> <p>You can select to sort entries displayed by selecting the column header.</p> <p>You can apply a search filter in the destination (<code>dstip</code>), service (<code>service</code>), user (<code>user</code>), and application (<code>app</code>) columns to further filter the information displayed.</p> <p>Select the <b>GO</b> button to apply the search filter. Select the return icon to return to the <i>Top Cloud Applications</i> page.</p>
<b>Search</b>	Add a search filter and select the <b>GO</b> button to apply the filter.

## System Events

The *System Events* dashboard displays an aggregated view of system related events. You can drill down the displayed information, select the device and time period, and apply search filters.

	<input type="text" value="Search"/>	All Devices	Last N Days	N1	Severity >= Info	GO
Event Name (Description)	Severity	Counts				
DHCP request and response log	Info	15,078	<div></div>			
Log upload to FortiCloud skipped	Medium	6,709	<div></div>			
Start uploading disk logs	Low	1,927	<div></div>			
DHCP Statistics	Info	1,170	<div></div>			
System performance statistics	Low	672	<div></div>			
session clash	Info	435	<div></div>			
Admin logged in successfully	Info	173	<div></div>			
Admin logged out	Info	169	<div></div>			
Disk log deleted	Medium	80	<div></div>			
interface stat change	Info	62	<div></div>			
Disk log directory deleted	Info	62	<div></div>			
Log rotation	Low	41	<div></div>			
Administrator has updated fortigate successfully	Low	30	<div></div>			
Quarantine dropped transfer jobs	Medium	7	<div></div>			
Sent log rotation request	Low	3	<div></div>			

50 Items per Page <<First <Prev 1 >Next >>Last Go to Page 1 of 1

The following information is displayed:

<b>Event Name (Description)</b>	Displays the event log description. Select the column header to sort entries by event name. You can apply a search filter to the Event Name ( <code>event_name</code> ) column.
<b>Severity</b>	Displays the severity level. Select the column header to sort entries by severity.
<b>Counts</b>	Displays the number count. Select the column header to sort entries by count.

The following options are available:

<b>Refresh</b>	Refresh the displayed information.
<b>Search</b>	Click the search field to add a search filter and select the <i>GO</i> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <i>GO</i> button to apply the device filter.
<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <i>GO</i> button to apply the time period filter.
<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.

<b>Severity</b>	Select the severity level from the drop-down list. Select one of the following options: >=Info, >=Low, >=Medium, >=High, or >=Critical.
<b>Go</b>	Select the <i>GO</i> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	
<b>Log View</b>	Right-click on a column and select <i>Log View</i> to view the log entries for the selected entry. Alternatively, double-click the column entry to view the <i>Log View</i> page. Select the return icon to return to the <i>System and Admin</i> page.
<b>Search</b>	Add a search filter and select the <i>GO</i> button to apply the filter.

## Admin Logins

The *Admin Login* dashboard displays an aggregated view of admin related events such as admin log in and failed log in attempts. You can drill down the displayed information, select the device and time period, and apply search filters.

User	Duration (seconds)	Logins	Failed Logins	Configuration Changes
syng	38,770	0	0	1
ltao	23,241	1	0	2
fortiguard-it	16,515	934	0	0
admin	23	3	0	0
dchao		1	0	0

The following information is displayed:

<b>User</b>	Displays the administrator user name. Select the column header to sort entries by user. You can apply a search filter to the User ( <code>f_user</code> ) column
<b>Duration</b>	Displays the login duration in seconds. Select the column header to sort entries by duration.

<b>Logins</b>	Displays the number of log ins. Select the column header to sort entries by logins.
<b>Failed Logins</b>	Displays the number of failed log ins. Select the column header to sort entries by failed logins.
<b>Configuration Changes</b>	Displays the number of configuration changes made by the user. Select the column header to sort entries by number of configuration changes.

The following options are available:

<b>Refresh</b>	Refresh the displayed information.
<b>Search</b>	Click the search field to add a search filter and select the <i>GO</i> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <i>GO</i> button to apply the device filter.
<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <i>GO</i> button to apply the time period filter.
<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Severity</b>	Select the severity level from the drop-down list. Select one of the following options: <i>&gt;=Info</i> , <i>&gt;=Low</i> , <i>&gt;=Medium</i> , <i>&gt;=High</i> , or <i>&gt;=Critical</i> .
<b>Go</b>	Select the <i>GO</i> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	
<b>Log View</b>	Right-click on a column and select <i>Log View</i> to view the log entries for the selected entry. Alternatively, double-click the column entry to view the <i>Log View</i> page. Select the return icon to return to the <i>System and Admin</i> page.
<b>Search</b>	Add a search filter and select the <i>GO</i> button to apply the filter.

## SSL & Dialup IPsec

The *SSL and Dialup IPsec* dashboard displays SSL and dialup IPsec VPN events. You can drill down the displayed information, select the device and time period, and apply search filters.

User	VPN Type	Connected From	# of Connections	Duration	Bytes(Sent/Received)
...	ssl-tunnel	70.68.139.104	1	02:20:15	222.53KB/1.47MB
...	ssl-tunnel	96.48.108.52	1	00:20:00	95.07KB/1.29MB
...	ssl-tunnel	...	1	02:20:00	106.58KB/447.14KB
...	ssl-tunnel	...	1	00:10:00	140.07KB/40.48KB
...	ssl-web	113.196.33.195	1	00:10:00	0B/0B
...	ssl-web	211.25.19.82	1	02:20:00	0B/0B
...	ssl-web	96.48.108.52	1	01:40:10	0B/0B
...	ssl-web	70.68.139.104	1	02:20:15	0B/0B
...	ssl-tunnel	36.229.105.105	1	00:00:00	0B/0B
...	ssl-web	36.229.105.105	1	00:00:00	0B/0B

The following information is displayed:

<b>User</b>	Displays the user name connecting to the tunnel. Select the column header to sort entries by user. You can apply a search filter to the user ( <code>f_user</code> ) column.
<b>VPN Type</b>	Displays the VPN type, e.g. ssl-tunnel, ssl-web. You can apply a search filter to the VPN Type ( <code>tunneltype</code> ) column.
<b>Connected From</b>	Displays the connected from IP address.
<b>Number of Connections</b>	Displays the number of connections. Select the column header to sort entries by number of connections.
<b>Duration</b>	Displays the duration the tunnel has been connected. Select the column header to sort entries by duration.
<b>Bytes (Sent/Received)</b>	Displays the value for sent and received packets. Select the column header to sort entries by bytes.

The following options are available:

<b>Refresh</b>	Refresh the displayed information.
<b>Search</b>	Click the search field to add a search filter and select the <i>GO</i> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <i>GO</i> button to apply the device filter.

<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <b>GO</b> button to apply the time period filter.
<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Go</b>	Select the <b>GO</b> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	
<b>Dialup Session</b>	Right-click on a column and select <i>Dialup Session</i> to view the session related information. Alternatively, double-click the column entry to view the <i>Dialup Session</i> page. You can apply a search filter for the Tunnel ID ( <code>tunnelid</code> ) column. Select the return icon to return to the <i>SSL &amp; Dialup IPsec</i> page.
<b>Search</b>	Add a search filter and select the <b>GO</b> button to apply the filter.

## Site-to-Site IPsec

The *Site-to-Site IPsec* dashboard displays site-to-site IPsec VPN events. You can drill down the displayed information, select the device and time period, and apply search filters.

Site-to-Site IPsec Tunnel	Initiating FGT	Connected From	Duration	Bytes(Sent/Received)
gw_ott	208.91.114.1	209.87.254.222	01:00:03	90.15KB/316.11MB
gw-sun-office	208.91.114.1	96.45.36.254	01:00:03	3.89MB/223.26MB
gw_Van	208.91.114.1	208.91.115.10	01:00:03	17.88MB/130.12MB
gw_france_lab	208.91.114.1	213.30.189.68	01:00:03	1.51MB/6.14MB
gw-senao	208.91.114.1	59.120.68.102	01:00:03	526.44KB/3.32MB
gw-dni	208.91.114.1	61.30.74.157	01:00:03	252.84KB/2.86MB
gw_BJ_RD_Off	208.91.114.1	59.108.29.2	01:00:03	704.09KB/574.43KB
gw-SteelCreek	208.91.114.1	208.91.113.20	06:40:07	502.56KB/581.95KB
gw_ibase	208.91.114.1	118.163.108.223	01:00:03	105.09KB/494.42KB
gw_SMC	208.91.114.1	64.169.30.20	01:00:03	163.68KB/382.50KB
gw_france	208.91.114.1	213.30.189.66	01:00:04	10.16KB/409.32KB
gw_adlink	208.91.114.1	60.248.8.183	01:00:03	163.64KB/241.81KB
gw_cci	208.91.114.1	50.200.136.6	01:00:03	61.29KB/133.53KB
gw-gem	208.91.114.1	58.210.52.86	00:40:00	48.62KB/65.13KB
gw_Van_IDC_FW3	208.91.114.1	208.91.113.30	01:00:03	9.97KB/16.50KB
gw-flex	208.91.114.1	158.116.214.5	01:00:03	161B/416B

The following information is displayed:

<b>Site-to-Site IPsec Tunnel</b>	Displays the site-to-site VPN tunnel name. You can apply a search filter to the Site-to-Site IPsec Tunnel ( <code>vpntunnel</code> ) column.
<b>Initiating FGT</b>	Displays the initiating IP address.
<b>Connected From</b>	Displays the connected from IP address.
<b>Duration</b>	Displays the duration the tunnel has been connected. Select the column header to sort entries by duration.
<b>Bytes (Sent/Received)</b>	Displays the value for sent and received packets. Select the column header to sort entries by bytes.

The following options are available:

<b>Refresh</b>	Refresh the displayed information.
<b>Search</b>	Click the search field to add a search filter and select the <i>GO</i> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <i>GO</i> button to apply the device filter.
<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <i>GO</i> button to apply the time period filter.
<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Go</b>	Select the <i>GO</i> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	
<b>Log View</b>	Right-click on a column and select <i>Log View</i> to view the log entries for the selected entry. Alternatively, double-click the column entry to view the <i>Log View</i> page. Select the return icon to return to the <i>Site-to-Site IPsec</i> page.
<b>Search</b>	Add a search filter and select the <i>GO</i> button to apply the filter.

## Rogue APs

The Rogue APs dashboard displays rogue AP events. You can drill down the displayed information, select the device and time period, and apply search filters.

SSID	Security Type	Channel	Radio Band	Vendor Info	Total Live Time (HH:MM)
D41D30Q1-14090	WPA2	2	802.11n	Intel Corporate	00:00:00
SGH-I337M	WPA2	6	802.11n	N/A	00:00:00
fortinet6341	WPA	11	802.11n	Fortinet, Inc.	00:00:00
D41D30Q1-14090	WPA2	11	802.11n	Intel Corporate	00:00:00
HTC Portable Hotspot 45F1	WPA2	11	802.11n	HTC Corporation	00:00:00
fortinet6341	WPA	1	802.11n	Fortinet, Inc.	00:00:00
D41D30Q1-14090	WPA2	5	802.11n	Intel Corporate	00:00:00
ap4	OPEN	6	802.11n	Fortinet Inc.	00:00:00
D41D30Q1-14090	WPA2	7	802.11n	Intel Corporate	00:00:09
ap4	OPEN	1	802.11n	Fortinet Inc.	00:00:09
pfnt	WPA2	11	802.11n	SparkLAN	00:02:34
D41D30Q1-14090	WPA2	1	802.11n	Intel Corporate	00:02:55
N/A	WPA2	11	802.11n	Fortinet Inc.	00:09:52
noname	WPA Auto	1	802.11g	Arcadyan Technology	00:11:08
REGUSNETWIFI	OPEN	6	802.11g	CISCO SYSTEMS, INC.	00:11:30
SGH-I337M	WPA2	11	802.11n	Samsung Electro	19:19:40
Repeater	WPA Auto	6	802.11n	D-Link	24:17:42

The following information is displayed:

<b>SSID</b>	Displays the service set identification (SSID). You can apply a search filter to the SSID ( <code>ssid</code> ) column.
<b>Security Type</b>	Displays the security type, e.g. WPA, WPA2, WPA Auto, Open. You can apply a search filter to the Security Type ( <code>securitymode</code> ) column.
<b>Channel</b>	Displays the channel.
<b>Radio Band</b>	Displays the radio band, e.g. 802.11n, 802.11g.
<b>Vendor Info</b>	Displays the vendor information. You can apply a search filter to the Vendor Info ( <code>manuf</code> ) column.
<b>Total Live Time (HH:MM)</b>	Displays the total live time in the format HH:MM:SS. Select the column header to sort entries by total live time.

The following options are available:

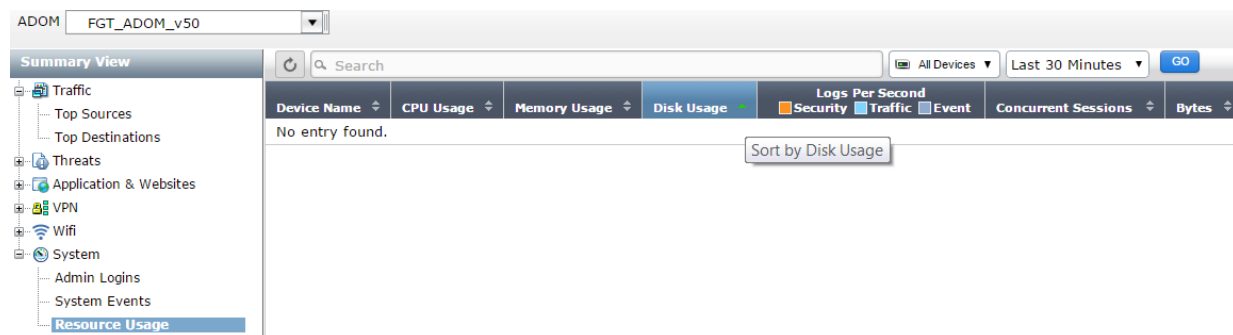
<b>Refresh</b>	Refresh the displayed information.
<b>Search</b>	Click the search field to add a search filter and select the <b>GO</b> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.



<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <i>GO</i> button to apply the device filter.
<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <i>GO</i> button to apply the time period filter.
<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Go</b>	Select the <i>GO</i> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	
<b>Log View</b>	Right-click on a column and select <i>Log View</i> to view the log entries for the selected entry. Alternatively, double-click the column entry to view the <i>Log View</i> page. Select the return icon to return to the <i>Rogue APs</i> page.
<b>Search</b>	Add a search filter and select the <i>GO</i> button to apply the filter.

## Resource usage

The Resource Usage dashboard displays device CPU, memory, logging, and other performance information. You can drill down the displayed information, select the device and time period, and apply search filters.



The following information is displayed:

<b>Device Name</b>	Displays the device name. Select the column header to sort entries by device name.
<b>IP Address</b>	Displays the IP address of the device.

<b>CPU Usage</b>	Displays the device CPU usage as a percentage. Select the column header to sort entries by CPU usage.
<b>Memory Usage</b>	Displays the device memory usage as a percentage. Select the column header to sort entries by memory usage.
<b>Disk Usage</b>	Displays the disk usage as a percentage. Select the column header to sort entries by disk usage. This information is also displayed as line graph.
<b>Logs Per Second</b>	Displays the number of logs per second including the top 3 log types.
<b>Sessions</b>	Displays the number of concurrent sessions for the device. Select the column header to sort entries by sessions.
<b>Bytes</b>	Displays the bytes for the device. Select the column header to sort entries by bytes.

The following options are available:

<b>Refresh</b>	Refresh the displayed information.
<b>Search</b>	Click the search field to add a search filter and select the <i>GO</i> button to apply the search filter. Alternatively, you can right-click the column entry to add the search filter.
<b>Devices</b>	Select the device or log array from the drop-down list or select <i>All Devices</i> . Select the <i>GO</i> button to apply the device filter.
<b>Time Period</b>	Select the time period from the drop-down list. Select <i>Custom</i> from the list to specify the start and end date and time. Select the <i>GO</i> button to apply the time period filter.
<b>N</b>	When selecting a time period with <i>last N</i> in the entry, you can enter the value for N in this text field.
<b>Custom</b>	When <i>Custom</i> is selected the custom icon will be displayed. Select the icon to change the custom time period.
<b>Go</b>	Select the <i>GO</i> button to apply the filter.
<b>Pagination</b>	Select the number of entries to display per page and browse pages.
<b>Right-click menu</b>	
<b>Resource Usage Drilldown</b>	Right-click on a column and select <i>Resource Usage Drilldown</i> to view a graphical representation of resource usage. Alternatively, double-click the column entry to view the <i>Resource Usage Drilldown</i> page. Select the return icon to return to the <i>Resource Usage</i> page.
<b>Search</b>	Add a search filter and select the <i>GO</i> button to apply the filter.

## Log view

Logging and reporting can help you determine what is happening on your network, as well as informing you of certain network activity, such as the detection of a virus, or IPsec VPN tunnel errors. Logging and reporting go hand in hand, and can become a valuable tool for information gathering, as well as displaying the activity that is happening on the network.

Your FortiAnalyzer device collects logs from managed FortiGate, FortiCarrier, FortiCache, FortiMail, FortiManager, FortiSandbox, FortiWeb, FortiClient, and syslog servers.

Device Type	Log Type
<b>FortiGate</b>	Traffic Event: Endpoint, HA, System, Router, VPN, User, WAN Opt. & Cache, and Wireless Security: Vulnerability Scan, AntiVirus, Web Filter, Application Control, Intrusion Prevention, Email Filter, Data Leak Prevention FortiClient VoIP Content logs are also collected for FortiOS 4.3 devices.
<b>FortiCarrier</b>	Traffic, Event
<b>FortiCache</b>	Traffic, Event, Antivirus, Web Filter
<b>FortiClient</b>	Traffic , Event
<b>FortiMail</b>	History, Event, Antivirus, Email Filter
<b>FortiManager</b>	Event
<b>FortiSandbox</b>	Malware, Network Alerts
<b>FortiWeb</b>	Event, Intrusion Prevention, Traffic
<b>Syslog</b>	Generic

Traffic logs record the traffic that is flowing through your FortiGate unit. Since traffic needs firewall policies to properly flow through the unit, this type of logging is also referred to as firewall policy logging. Firewall policies control all traffic that attempts to pass through the FortiGate unit, between FortiGate interfaces, zones and VLAN sub-interfaces.

The event log records administration management as well as Fortinet device system activity, such as when a configuration has changed, or admin login or HA events occur. Event logs are important because they record Fortinet device system activity, which provides valuable information about how your Fortinet unit is performing. The FortiGate event logs includes *System*, *Router*, *VPN*, and *User* menu objects to provide you with more granularity when viewing and searching log data.

Security logs (FortiGate) record all antivirus, web filtering, application control, intrusion prevention, email filtering, data leak prevention, vulnerability scan, and VoIP activity on your managed devices.



The logs displayed on your FortiAnalyzer are dependent on the device type logging to it and the features enabled. FortiGate, FortiCarrier, FortiCache, FortiMail, FortiManager, FortiWeb, FortiSandbox, FortiClient and Syslog logging is supported. ADOMs must be enabled to support non-FortiGate logging.

For more information on logging see the *Logging and Reporting for FortiOS Handbook* in the [Fortinet Document Library](#).

The *Log View* menu displays log messages for connected devices. You can also view, import, and export log files that are stored for a given device, and browse logs for all devices.



When rebuilding the SQL database, Log View will not be available until after the rebuild is completed. Although you can view older logs, new logs will not be inserted into the database until after the rebuild is completed. Select the *Show Progress* link in the message to view the status of the SQL rebuild.

## Viewing log messages

To view log messages, select the *FortiView* tab, select *Log View* in the left tree menu, then browse to the ADOM whose logs you would like to view in the tree menu. You can view the traffic log, event log, or security log information per device or per log array. FortiMail and FortiWeb logs are found in their respective default ADOMs. For more information on FortiGate raw logs, see the *FortiGate Log Message Reference* in the [Fortinet Document Library](#). For more information on other device raw logs, see the *Log Message Reference* for the platform type.

Example: srcip=172.16.86.11 service=HTTP									
#	Date/Time	Device ID	Action	Source IP	Destination IP	Service	Sent/Received	User	Applics
1	11-05 14:35	FG100A2104400006	start	172.16.96.137	172.16.86.104	RSH	0 / 0	N/A	RSH
2	11-05 14:35	FG100A2104400006	deny	172.16.86.231	172.16.86.255	137/udp	0 / 0	N/A	137/ud
3	11-05 14:35	FG100A2104400006	start	172.16.96.158	172.16.86.107	8010/tcp	0 / 0	N/A	8010/t
4	11-05 14:35	FG100A2104400006	start	172.17.93.223	172.16.86.104	RSH	0 / 0	N/A	RSH
5	11-05 14:35	FG100A2104400006	deny	172.16.86.216	172.16.86.255	137/udp	0 / 0	N/A	137/ud
6	11-05 14:35	FG100A2104400006	deny	0.0.0.0	255.255.255.255	DHCP	0 / 0	N/A	DHCP
7	11-05 14:35	FG100A2104400006	deny	172.16.86.231	172.16.86.255	137/udp	0 / 0	N/A	137/udp
8	11-05 14:35	FG100A2104400006	deny	172.16.106.211	172.16.86.104	RSH	0 / 0	N/A	RSH
9	11-05 14:35	FG100A2104400006	start	172.16.106.211	172.16.86.104	RSH	0 / 0	N/A	RSH
10	11-05 14:35	FG100A2104400006	deny	172.16.86.56	172.16.86.255	137/udp	0 / 0	N/A	137/udp

<b>Action</b>	start	<b>Application</b>	RSH
<b>Application Category</b>	Not Scanned	<b>Date/Time</b>	11-05 14:35
<b>Destination Country</b>	Reserved	<b>Destination IP</b>	172.16.86.104
<b>Destination Interface</b>	internal	<b>Destination Name</b>	172.16.86.104
<b>Destination Port</b>	514	<b>Device ID</b>	FG100A2104400006
<b>Device Name</b>	FGT100A	<b>Device Time</b>	2014-11-05 14:35:48
<b>Dst NAT IP</b>	172.16.81.40	<b>Dst NAT Port</b>	514
<b>Duration</b>	0	<b>Group</b>	N/A
<b>Level</b>	4	<b>Log ID</b>	4
<b>Per-IP Shaper</b>	N/A	<b>Per-IP Shaper Bytes Dropped</b>	0
<b>Policy ID</b>	5	<b>Protocol</b>	6
<b>Received Shaper Bytes Dropped</b>	0	<b>Received Shaper Name</b>	N/A
<b>Sent Shaper Bytes Dropped</b>	0	<b>Sent Shaper Name</b>	N/A
<b>Sent/Received</b>	0 / 0	<b>Sequence No.</b>	10945795
<b>Service</b>	RSH	<b>Source</b>	172.16.96.137
<b>Source IP</b>	172.16.96.137	<b>Source Interface</b>	dmz1
<b>Source Port</b>	12982	<b>Src NAT IP</b>	172.16.81.1
<b>Src NAT Port</b>	58418	<b>Sub Type</b>	forward
<b>Time Stamp</b>	2014-11-05 14:35:48	<b>Type</b>	traffic
<b>User</b>	N/A	<b>VPN</b>	N/A
<b>Virtual Domain</b>	root		

This page displays the following information and options:

<b>Refresh</b>	Select the icon to refresh the log view. This option is only available when viewing historical logs.
<b>Search</b>	Enter a search term to search the log messages. See <a href="#">To perform a text search: on page 156</a> . You can also right-click an entry in one of the columns and select to add a search filter. Select <b>GO</b> in the toolbar to apply the filter. Not all columns support the search feature.
<b>Latest Search</b>	Select the icon to repeat previous searches, select favorite searches, or quickly add filters to your search. The filters available will vary based on device and log type.
<b>Clear Search</b>	Select the icon to clear search filters.
<b>Help</b>	Hover your mouse over the help icon, for example search syntax. See <a href="#">Examples</a> .
<b>Device</b>	Select the device or log array in the drop-down list. Select <i>Manage Log Arrays</i> in the <i>Tools</i> menu to create, edit, or delete log arrays.
<b>Time Period</b>	Select a time period from the drop-down list. Options include: <i>Last 30 mins</i> , <i>Last 1 hour</i> , <i>Last 4 hours</i> , <i>Last 12 hours</i> , <i>Last 1 day</i> , <i>Last 7 days</i> , <i>Last N hours</i> , <i>Last N days</i> , or <i>Custom</i> . See <a href="#">To customize the time period: on page 156</a> . This option is only available when viewing historical logs.
<b>GO</b>	Select the icon to apply the time period and limit to the displayed log entries. A progress bar is displayed in the lower toolbar.
<b>Custom View</b>	Select to create a new custom view. You can select to create multiple custom views in log view. Each custom view can display a select device or log array with specific filters and time period. See <a href="#">To delete a custom view: on page 155</a> . Custom views are displayed under the <i>Custom View</i> menu. This option is only available when viewing historical logs.
<b>Pause   Resume</b>	Pause or resume real-time log display. These two options are only available when viewing real-time logs.
<b>Tools</b>	The tools button provides options for changing the manner in which the logs are displayed, and search and column options. You can manage log arrays and it also provides an option for downloading logs, see <a href="#">To download log messages: on page 157</a> .
<b>Real-time Log Historical Log</b>	Select to change view from <i>Real-time Log</i> to <i>Historical Log</i> .
<b>Display Raw</b>	Select to change view from formatted display to raw log display.

<b>Download</b>	Select to download logs. A download dialog box is displayed. Select the log file format, compress with gzip, the pages to include and select <i>Apply</i> to save the log file to the management computer. This option is only available when viewing historical logs in formatted display.
<b>Manage Log Arrays</b>	Select to create new, edit, and delete log arrays. Once you have created a log array, you can select the log array in the <i>Device</i> drop-down menu in the <i>Log View</i> toolbar. In FortiAnalyzer v5.2.0 and later, when selecting to add a device with VDOMs, all VDOMs are automatically added to the Log Array.
<b>Case Sensitive Search</b>	Select to enable case sensitive search.
<b>Enable Column Filter</b>	Select to enable column filters.
<b>Logs</b>	The columns and information shown in the log message list will vary depending on the selected log type, the device type, and the view settings. Right-click on various columns to add search filters to refine the logs displayed. When a search filter is applied, the value is highlighted in the table and log details.
<b>Log Details</b>	Detailed information on the log message selected in the log message list. The item is not available when viewing raw logs. See <a href="#">Log details on page 159</a> for more information. <i>Log Details</i> are only displayed when enabled in the <i>Tools</i> menu.
<b>Status Bar</b>	Displays the log view status as a percentage.
<b>Pagination</b>	Adjust the number of logs that are listed per page and browse through the pages.
<b>Limit</b>	Select the maximum number of log entries to be displayed from the drop-down list. Options include: <i>1000</i> , <i>5000</i> , <i>10000</i> , <i>50000</i> , or <i>All</i> .
<b>Display Log Details</b>	Select the icon to the right of <i>Limit</i> to display the log details window.
<b>Archive</b>	Information about archived logs, when they are available. The item is not available when viewing raw logs, or when the selected log message has no archived logs. When an archive is available, the archive icon is displayed. See <a href="#">Archive on page 159</a> for more information. This option is only available when viewing historical logs in formatted display and when an archive is available.

## Customizing the log view

The log message list can show raw or formatted, real time or historical logs. The columns in the log message list can be customized to show only relevant information in your preferred order.

## Log display

By default, historical formatted logs are shown in the log message list. You can change the view to show raw logs and both raw and formatted real time logs.

To view real time logs, in the log message list, select *Tools*, then select *Real-time Log* from the drop-down menu. To return to the historical log view, select *Tools*, then select *Historical Log* from the drop-down menu.

To view raw logs, in the log message list, select *View*, then select *Display Raw* from the drop-down menu, Log view (raw display). To return to the formatted log view, select *Tools*, then select *Display Formatted* from the drop-down menu.

The screenshot shows the FortiView Log view interface. At the top, there's a search bar with the text 'Example: srcip=172.16.86.11 service=HTTP'. Below the search bar is a toolbar with buttons for 'Device', 'All Devices', 'Last N days', 'N 1', 'GO', 'Custom View', and 'Tools'. The 'Tools' dropdown menu is open, showing options: 'Real-time Log', 'Display Formatted', 'Download', 'Manage Log Arrays', and 'Case Sensitive Search'. The main area displays a list of log entries, each with a number and detailed information including time, source/destination IP, protocol, and various status fields.

This page displays the following information and options:

<b>Refresh</b>	Select to refresh the log view. This option is only available when viewing historical logs.
<b>Search</b>	Enter a search term to search the log messages. See <a href="#">To perform a text search: on page 156</a> . Select <b>GO</b> in the toolbar to apply the filter.
<b>Latest Search</b>	Select the icon to repeat previous searches, select favorite searches, or quickly add filters to your search. The filters available will vary based on device and log type.
<b>Clear Search</b>	Select the icon to clear search filters.
<b>Help</b>	Hover your mouse over the help icon, for example search syntax. See <a href="#">Examples on page 156</a> .

<b>Device</b>	Select the device or log array in the drop-down list. Select <i>Manage Log Arrays</i> in the <i>Tools</i> menu to create, edit, or delete log arrays.
<b>Time Period</b>	Select a time period from the drop-down list. Options include: <i>Last 30 mins</i> , <i>Last 1 hour</i> , <i>Last 4 hours</i> , <i>Last 12 hours</i> , <i>Last 1 day</i> , <i>Last 7 days</i> , <i>Last N hours</i> , <i>Last N days</i> , or <i>Custom</i> . See <a href="#">To customize the time period: on page 156</a> . This option is only available when viewing historical logs.
<b>GO</b>	Select to apply the time period and limit to the displayed log entries. A progress bar is displayed in the lower toolbar.
<b>Create Custom View</b>	Select to create a new custom view. You can select to create multiple custom views in log view. Each custom view can display a select device or log array with specific filters and time period. See <a href="#">To create a new custom view: on page 155</a> . This option is only available when viewing historical logs.
<b>Pause   Resume</b>	Pause or resume real-time log display. These two options are only available when viewing real-time logs.
<b>Tools</b>	The tools button provides options for changing the manner in which the logs are displayed, and search options. You can manage log arrays and it also provides an option for downloading logs, see <a href="#">Download log messages on page 157</a> .
<b>Real-time Log Historical Log</b>	Select to change view from <i>Real-time Log</i> to <i>Historical Log</i> .
<b>Display Formatted</b>	Select to change view from raw log display to formatted log display.
<b>Download</b>	Select to download logs. A download dialog box is displayed. Select the log file format, compress with gzip, the pages to include and select <i>Apply</i> to save the log file to the management computer. This option is only available when viewing historical logs in formatted display.
	Select to create new, edit, and delete log arrays. Once you have created a log array, you can select the log array in the <i>Device</i> drop-down menu in the <i>Log View</i> toolbar.
	Select to enable case sensitive search.
<b>Detailed Information</b>	Detailed information on the log message selected in the log message list. The item is not available when viewing raw logs.
<b>Status Bar</b>	Displays the log view status as a percentage.
<b>Pagination</b>	Adjust the number of logs that are listed per page and browse through the pages.



**Limit**

Select the maximum number of log entries to be displayed from the drop-down list. Options include: *1000*, *5000*, *10000*, *50000*, or *All*.

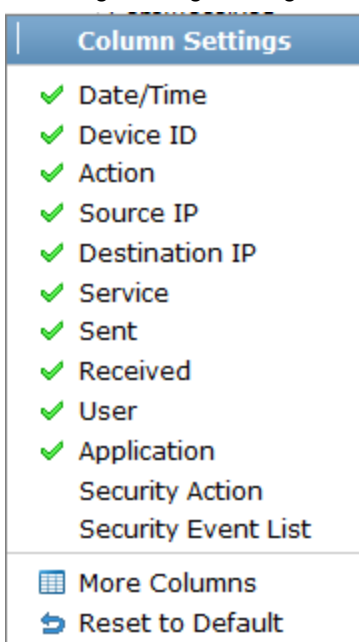
The selected log view will affect the other options that are available in the *View* drop-down menu. Real-time logs cannot be downloaded, and raw logs do not have the option to customize the columns.

## Columns

The columns displayed in the log message list can be customized and reordered as needed. Filters can also be applied to the data in a column.

### To customize the displayed columns:

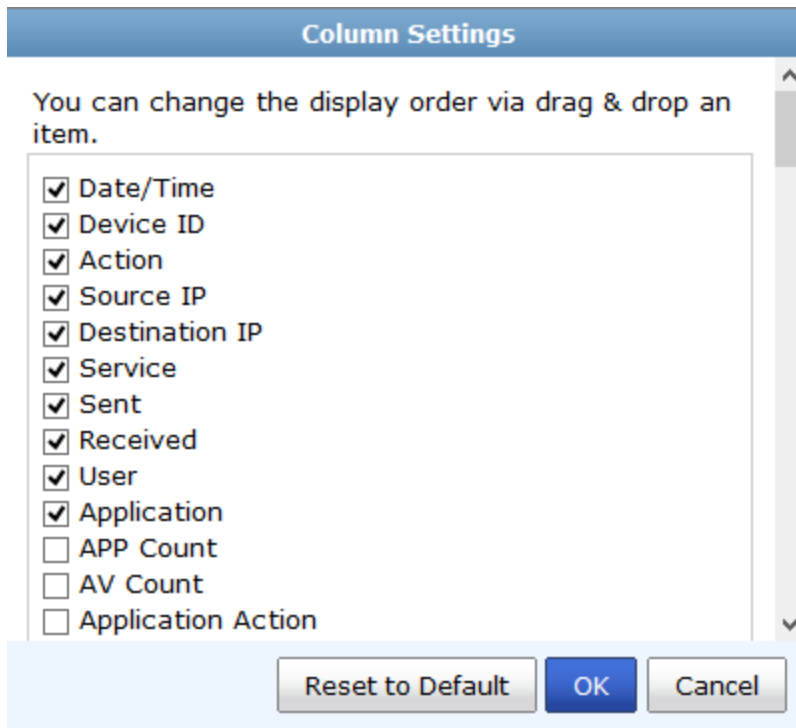
1. In the log message list, right-click on a column heading. The *Column Settings* pop-up menu opens.



2. Select a column to hide or display, select *Reset to Default* to reset to the default columns, or select *More Columns* to open the *Column Settings* window.



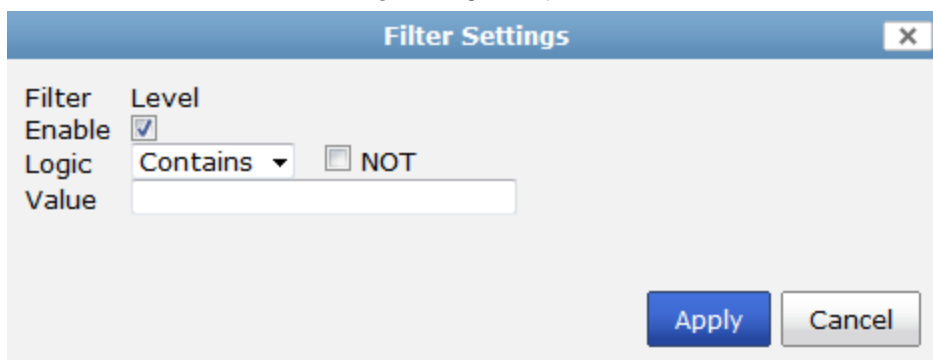
The available column settings will vary based on the device and log type selected.



3. In the Column Settings window, multiple columns can be added or removed as required, and the order of the displayed columns can be adjusted by dragging and dropping the column names.
4. To reset to the default columns, select *Reset to Default*.
5. Select *OK* to apply your changes.

#### To filter column data:

1. In the log message list, select *Tools*, then select *Enable Column Filter* from the drop-down menu to enable column filters.
2. In the heading of the column you need to filter, select the filter icon. The filter icon will only be shown on columns that can be filtered. The *Filter Settings* dialog box opens.



3. Enable the filter, then enter the required information to filter the selected column. The filter settings will vary based on the selected column.
4. Select *Apply* to apply the filter to the data.

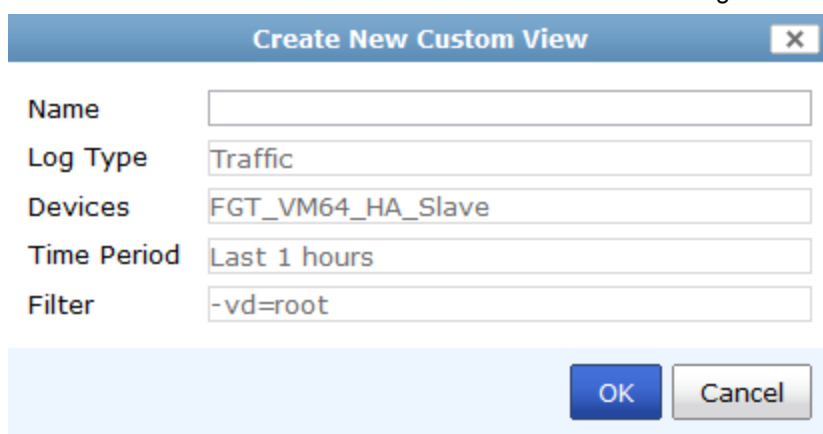
The column's filter icon will turn green when the filter is enabled, Downloading the current view will only download the log messages that meet the current filter criteria.

## Custom views

Select *Create Custom View* in the toolbar to create a new custom log view. Use *Custom View* to save a custom search, device selection, and time period so that you can select this view at any time to view results without having to re-select these criteria. Custom views are listed under the *Custom View* menu and allow you to quickly view log data based on specific time and content filters without having to re-configure filters.

### To create a new custom view:

1. In the *Log View* pane, select a log type.
2. Enter a search term, select a device or devices, select a time period, limit the number of logs to display as needed, then select *Custom View*. The *Create New Custom View* dialog box is displayed.

The image shows a dialog box titled "Create New Custom View" with a close button (X) in the top right corner. It contains five input fields: "Name" (empty), "Log Type" (set to "Traffic"), "Devices" (set to "FGT\_VM64\_HA\_Slave"), "Time Period" (set to "Last 1 hours"), and "Filter" (set to "-vd=root"). At the bottom right, there are two buttons: "OK" and "Cancel".

3. Enter a name for the new custom view. All other fields are read-only. The new custom view is saved to the Custom View folder in the ADOM.

### To edit a custom view:

1. In the *Log View* pane, select the *Custom View* folder in the tree menu.
2. Select the custom view you would like to edit.
3. Edit the custom search, devices, time period, limit the number of logs to display, and select *GO*.
4. Right-click the name of the custom view and select *Save* to save your changes.

### To rename a custom view:

1. In the *Log View* pane, select an ADOM, and select the Custom View folder.
2. Right-click the name of the custom view and select *Rename* in the menu. The *Rename Custom View* dialog box opens.
3. Edit the name and select *OK* to save your changes.

### To delete a custom view:

1. In the *Log View* pane, select an ADOM, and select the Custom View folder.
2. Right-click the name of the custom view and select *Delete* in the menu.

3. Select **OK** in the confirmation dialog box to delete the view.

## Searching log messages

Log messages can be searched based on a text string and/or time period. Recent searches can be quickly repeated, a time period can be specified or customized, and the number of displayed logs can be limited. A text string search can be case sensitive or not as required.

### To perform a text search:

1. In the log message list, select **Tools**, then either select or deselect **Case Sensitive Search** from the drop-down menu to enable or disable case sensitivity in the search string.
2. In the log message list, enter a text string in the search field in the following ways:
  - Manually type in the text that you are searching for. Wildcard characters are accepted.
  - Right-click on the element in the list that you would like to add to the search and select to search for strings that either match or don't match that value.
  - Select a previous search or default filter, using the history icon. The available filters will vary depending on the selected log type and displayed columns.
  - Paste a saved search into the search field.



3. Select **GO** to search the log message list.

### To customize the time period:

1. In the log message list, open the time period drop-down menu, and select **Custom....** The **Custom Timeframe** dialog box opens.
2. Specify the desired time period using the **From** and **To** fields, or select **Any Time** to remove any time period from the displayed data.
3. Select **Apply** to create the custom time period. A calendar icon will be shown next to the time period drop-down list. Select it to adjust the custom time period settings.
4. Select **GO** to apply your settings to the log message list.

## Examples

To view example text search strings, hover your cursor over the help icon.

- \* **Basic search**  
Example: `srcip=172.16.86.11 service=HTTP`
- \* **Search with 'or'**  
Example: `srcip=172.16.* or srcip=172.18.*`
- \* **Search with 'not'**  
Example: `-srcip=172.16.86.11 and -service=HTTP`
- \* **Wildcard is supported.**

The first example will search for log messages with a source IP address of 172.16.86.11 and a service of HTTP. Because it is not specified, the `and` operator is assumed, meaning that both conditions must be met for the log message to be included in the search results.

The second example will search for any log messages with source IP addresses that start with either 172.16 or 172.18. Notice the use of the `*` wildcard. The use of the `or` operator means that either condition can be met for the log message to be included in the search results.

The third example will search for any log message that do not have a source IP address of 172.16.86.11 and a service of HTTP. The use of the `and` operator means that both conditions must be met for the log message to be excluded from the search results.

## Download log messages

Log messages can be downloaded to the management computer as a text or CSV file. Real time logs cannot be downloaded.

### To download log messages:

1. In the log message list, select *Tools*, then select *Download*. The *Download* dialog box opens.
2. Select a log format from the drop down list, either *Text* or *CSV*.
3. Select *Compress with gzip* to compress the downloaded file.
4. Select *Current Page* to download only the current log message page, or *All Pages* to download all of the pages in the log message list.
5. Select *Apply* to download the log messages to the management computer.

## Log arrays

*Log Array* has been relocated to *Log View* in the *FortiView* tab from the *Device Manager* tab. Upon upgrading to FortiAnalyzer v5.2.0 and later, all previously configured log arrays will be imported. In FortiAnalyzer v5.0.6 and earlier, when creating a Log Array with both devices and VDOMs, you need to select each device and VDOM to add it to the Log Array. In FortiAnalyzer v5.2.0 and later, when selecting to add a device with VDOMs, all VDOMs are automatically added to the Log Array.

### To create a new log array:

1. In the *Log View* pane, select the *Tools* button, and select *Manage Log Arrays*. The *Manage Log Arrays* dialog box opens.
2. Select *Create New* in the dialog box toolbar. The *Create New Log Array* dialog box opens.

**Create New Log Array**
✕

**Name**

**Comments**

**Devices**

Click to specify Devices

+

OK

Cancel

3. Enter the following:

<b>Name</b>	Enter a unique name for the log array.
<b>Comments</b>	Enter optional comments for the log array.
<b>Devices</b>	Select the add icon and select devices and VDOMs to add to the log array. Select <i>OK</i> in the device selection window.

4. Select *OK* to create the new log array.
5. Select the close icon to close the *Manage Log Arrays* dialog box.

#### To edit a log array:

1. In the *Log View* pane, select *Tools*, and select *Manage Log Arrays*. The *Manage Log Arrays* dialog box is displayed.
2. Select a log array entry and select *Edit* in the toolbar. The *Edit Log Array* dialog box is displayed.
3. Edit the log array name, comments, and devices as needed.
4. Select *OK* to save the log array.
5. Select the close icon to close the *Manage Log Arrays* dialog box.

#### To delete a log array:



1. In the *Log View* pane, select *Tools*, and select *Manage Log Arrays*. The *Manage Log Arrays* dialog box is displayed.
2. Select the log array entry and select *Delete* in the toolbar.
3. Select *OK* in the confirmation dialog box to delete the log array.
4. Select the close icon to close the *Manage Log Arrays* dialog box.

## Log details

Log details can be viewed for any of the collected logs. The details provided in vary depending on the device and type of log selected. The fields available in the this pane cannot be edited or re-organized.

To view log details, select the log in the log message list. Click the log details icon to the left of the limit field, the log details frame will be displayed in the lower frame of the content pane. Log details are not available when viewing raw logs.

In the *Log View* pane, select the *Tools* button, and select *Display Log Details* to enable log details display.

Log Details			
Application	RSH	Client Reputation Action	262144
Client Reputation Score	1375731722	Date/Time	16:41:43
Destination Country	United States	Destination IP	 208.91.113.97
Destination Interface	port9	Destination Port	514
Device ID	FG200B3911601438	Device Time	2014-06-09 16:41:42
Duration	10	Level	 INFO
Log ID	14	Policy ID	0
Protocol	6	Sent	60
Sent Packets	1	Sent/Received	I 60 B / 0
Sequence No.	73628	Service	RSH
Source Country	Reserved	Source Interface	N/A
Source Port	12350	Source/Device	192.168.70.20
Sub Type	local	Time Stamp	2014-06-09 16:41:43
Tran Display	noop	Type	traffic
Virtual Domain	root	logger	52
threatlevel	2	threattype	failed-connection

## Archive

The *Archive* tab is displayed next to the *Log Details* tab in the lower content pane when archived logs are available. The archive icon is displayed in the log entry line to identify that an archive file is available.

The name and size of the archived log files are listed in the table. Selecting the download button next to the file name allows you to save the file to your computer.

Depending on the file type of the archived log file, the *View Packet Log* button may also be available next to the download button. Select this button to open the *View Packet Log* dialog box, which displays the path and content of the log file.

View Packet Log X

#	Source	Destination	Protocol	Source Port	Destination Port	Length
1	172.16.200.55	10.1.100.11	TCP	21	46706	74

```

0000  45 00 00 4a 39 d6 40 00  40 06 1e 84 ac 10 c8 37  E..J9.@. @.....7
0010  0a 01 64 0b 00 15 b6 72  c1 af a5 ca e7 9b c8 8b  ..d....r .....
0020  80 18 16 a0 2b 4d 00 00  01 01 08 0a 00 03 a2 99  ....+M.. .....
0030  f5 4a 3f 14 35 33 30 20  4c 6f 67 69 6e 20 69 6e  .J?.530 Login in
0040  63 6f 72 72 65 63 74 2e  0d 0a                      correct. ..gin in

```

Save
Close

## Browsing log files

Go to *FortiView > Log View > Log Browse* to view log files stored for devices. In this page you can display, download, delete, and import log files.

When a log file reaches its maximum size or a scheduled time, the FortiAnalyzer rolls the active log file by renaming the file. The file name will be in the form of `xlog.N.log`, where `x` is a letter indicating the log type, and `N` is a unique number corresponding to the time the first log entry was received.

For information about setting the maximum file size and log rolling options, see [Configuring rolling and uploading of logs](#).

If you display the log messages in formatted view, you can perform all the same actions as with the log message list. See [Viewing log messages](#).



Delete  Display  Download  Import						
Search						
Device	Serial Number	Type	Log Files	From	To	Size (bytes)
FGT-B-Vivian	FG300C3912604015	Traffic.	tlog.log	Fri Sep 6 14:57:37 2013	Tue Feb 4 11:32:32 2014	10,661,408
FGT-B-Vivian	FG300C3912604015	Web Filter.	wlog.log	Fri Sep 6 15:17:00 2013	Tue Nov 26 17:51:27 2013	39,025
FGT_1240B	FGT1KB3909601020	Application Control.	rlog.log	Sat May 3 14:12:24 2014	Fri Jun 6 17:01:41 2014	37,157,820
FGT_1240B	FGT1KB3909601020	Attack.	alog.log	Wed Dec 4 16:21:27 2013	Fri Jun 6 17:01:08 2014	70,998,529
FGT_1240B	FGT1KB3909601020	Virus.	vlog.log	Fri Dec 6 08:45:46 2013	Fri Jun 6 17:01:42 2014	14,006,863
FGT_1240B	FGT1KB3909601020	Data Leak Prevention.	dlog.log	Mon May 5 07:49:46 2014	Fri Jun 6 17:01:58 2014	22,232,893
FGT_1240B	FGT1KB3909601020	Data Leak Prevention.	dlog.1399125195.log	Sat May 3 06:53:15 2014	Mon May 5 07:49:46 2014	209,716,154
FGT_1240B	FGT1KB3909601020	Event.	elog.log	Fri Dec 6 08:49:02 2013	Fri Aug 1 12:26:47 2014	186,836,894
FGT_1240B	FGT1KB3909601020	VoIP.	plog.log	Thu Jun 19 16:11:37 2014	Thu Jun 19 16:31:29 2014	9,623,505
FGT_1240B	FGT1KB3909601020	Email Filter.	slog.log	Wed Dec 4 15:59:38 2013	Mon May 5 18:10:49 2014	74,414,060
FGT_1240B	FGT1KB3909601020	Network Scan.	nlog.log	Wed Dec 4 16:08:41 2013	Sun Jul 27 00:13:44 2014	87,597,802
FGT_1240B	FGT1KB3909601020	Traffic.	tlog.log	Mon Jul 28 13:30:18 2014	Fri Aug 1 12:26:04 2014	64,300,378
FGT_1240B	FGT1KB3909601020	Traffic.	tlog.1406565583.log	Mon Jul 28 09:39:43 2014	Mon Jul 28 13:30:18 2014	209,715,551
FGT_1240B	FGT1KB3909601020	Traffic.	tlog.1406549715.log	Mon Jul 28 05:15:15 2014	Mon Jul 28 09:39:43 2014	209,715,571
FGT_1240B	FGT1KB3909601020	Traffic.	tlog.1406534338.log	Mon Jul 28 00:58:58 2014	Mon Jul 28 05:15:16 2014	209,715,801
FGT_1240B	FGT1KB3909601020	Traffic.	tlog.1406520578.log	Sun Jul 27 21:09:38 2014	Mon Jul 28 00:58:58 2014	209,715,524
FGT_1240B	FGT1KB3909601020	Traffic.	tlog.1406505474.log	Sun Jul 27 16:57:54 2014	Sun Jul 27 21:09:38 2014	209,715,394
FGT_1240B	FGT1KB3909601020	Traffic.	tlog.1406491488.log	Sun Jul 27 13:04:48 2014	Sun Jul 27 16:57:55 2014	209,715,637

50 Items per page << first < prev 1 2 3 4 5 next > last >> Go to page 1 of 6

This page displays the following:

<b>Delete</b>	Select the file of files whose log messages you want to delete, then select <i>Delete</i> , and then select <i>OK</i> in the confirmation dialog box.
<b>Display</b>	Select the file whose log messages you want to view, then select <i>Display</i> to open the log message list. For more information, see <a href="#">Viewing log messages on page 148</a>
<b>Download</b>	Download a log file. See <a href="#">Downloading a log file on page 162</a> .
<b>Import</b>	Import log files. See <a href="#">Importing a log file on page 162</a> .
<b>Search</b>	Search the log files by entering a text value in the search window, such as a device serial number.
<b>Log file list</b>	A list of the log files.
<b>Device</b>	The device host name.
<b>Serial Number</b>	The device serial number.
<b>Type</b>	The log type. For example: <i>Email Filter</i> , <i>Event</i> , <i>Traffic</i> , <i>Web Filter</i> , <i>Virus</i> , <i>Application Control</i> , <i>Data Leak Prevention</i> , etc.

<b>Log Files</b>	A list of available log files for each device. The current, or active, log file appears as well as rolled log files. Rolled log files include a number in the file name, such as <code>vlog.1267852112.log</code> . If you configure the FortiAnalyzer unit to delete the original log files after uploading rolled logs to an FTP server, only the current log will exist.
<b>From</b>	The time when the log file began to be generated.
<b>To</b>	The time when the log file generation ended.
<b>Size (bytes)</b>	The size of the log file, in bytes.
<b>Pagination</b>	Adjust the number of logs that are listed per page and browse through the pages.

## Importing a log file

Imported log files can be useful when restoring data or loading log data for temporary use. For example, if you have older log files from a device, you can import these logs to the FortiAnalyzer unit so that you can generate reports containing older data.

### To import a log file:

1. Go to *FortiView > Log View > Log Browse*.
2. Select *Import* in the toolbar. The *Import Log File* dialog box opens.
3. Select the device to which the imported log file belongs from the *Device* field drop-down list, or select *[Take From Imported File]* to read the device ID from the log file. If you select *[Take From Imported File]* your log file must contain a `device_id` field in its log messages.
4. In the *File* field, select *Browse*, and find the log file on the management computer.
5. Select *OK*. A message appears, stating that the upload is beginning, but will be cancelled if you leave the page.
6. Select *OK*. The upload time varies depending on the size of the file and the speed of the connection.

After the log file has been successfully uploaded, the FortiAnalyzer unit will inspect the file:

- If the `device_id` field in the uploaded log file does not match the device, the import will fail. Select *Return* to attempt another import.
- If you selected *[Take From Imported File]*, and the FortiAnalyzer unit's device list does not currently contain that device, a message appears after the upload. Select *OK* to import the log file and automatically add the device to the device list.



If you have the *Delete log files after uploading* option enabled (under *System Settings > Device Log Settings > Registered Device Logs > Upload logs using a standard file transfer protocol*), the imported log will be deleted after it is uploaded to the remote server.

## Downloading a log file

You can download a log file to save it as a backup or for use outside the FortiAnalyzer unit. The download consists of either the entire log file, or a partial log file, as selected by your current log view filter settings and, if

downloading a raw file, the time span specified.

### To download a log file:

1. Go to *FortiView > Log View > Log Browse*.
2. Select the specific log file that you need to download, then select *Download* from the toolbar. The *Download Log File* dialog box opens.
3. Select the log file format, either text, Native, or CSV.
4. Select *Compress with gzip* to compress the log file.
5. Select *Apply* to download the log file.

If prompted by your web browser, select a location to where save the file, or open the file without saving.

## FortiClient logs

The FortiAnalyzer unit can receive FortiClient logs uploaded through TCP port 514. FortiClient logs can be viewed in *FortiView > Log View* under the FortiGate device that FortiClient is registered to. Both traffic and event logs are available. Logs can be viewed in both historical and real-time views and in both formatted and raw log views.

In FortiAnalyzer v5.2.1 and later, log injection into the SQL database is supported for v5.2 or later licensed endpoints. Clients with the v5.0 license are able to send logs to FortiAnalyzer, but these logs will not be inserted into the SQL database.

The screenshot shows the FortiView Log View interface. On the left is a navigation pane with categories like Traffic, Event, Security, Vulnerability Scan, AntiVirus, Web Filter, Application Control, Intrusion Prevention, Email Filter, Data Leak Prevention, FortiClient, and Vulnerability Scan. The main area displays a table of logs. Below this, a 'Log Details' section provides more information about a selected log entry.

#	Date/Time	UID	Device ID	User	vulname	vulnseverity	Vulnerability Category
1	11:10:45	0114065465	FCT8000114065465	N/A	N/A	N/A	N/A
2	11:10:45	0114065465	FCT8000114065465	N/A	Microsoft.Windows.Process...	Informa	Windows
3	11:10:45	0114065465	FCT8000114065465	N/A	Gathered	Informa	Windows
4	11:10:45	0114065465	FCT8000114065465	N/A	Mozilla.Firefox.Web.Browser...	Informa	Web
5	11:10:45	0114065465	FCT8000114065465	N/A	Enabled.Caching.Dial-up.Password.Feature	Informa	Operating
6	11:10:45	0114065465	FCT8000114065465	N/A	Possible.Log.Recording.Issues	Informa	Operating
7	11:10:45	0114065465	FCT8000114065465	N/A	Disabled.Clear.Page.File	Informa	Operating
8	11:10:45	0114065465	FCT8000114065465	N/A	Windows.CDRom.Autorun.Enabled	Informa	Operating
9	11:10:45	0114065465	FCT8000114065465	N/A	Enabled.Shutdown.Without.Logon	Informa	Operating
10	11:10:45	0114065465	FCT8000114065465	N/A	Enabled.Display.Last.UserName	Informa	Operating

Client Feature	Date/Time
vulnerabilityscan	11:10:45
Device Host Name	JohnYang-PC
Device ID	FCT8000114065465
Device IP	172.16.86.214
Device Time	2014-11-06 11:10:45
Level	CRITICAL
Status	finished
Type	netscan
User	N/A
Vulnerability Category	N/A
Vulnerability Reference	N/A
vulnengine	N/A
vulnseverity	N/A

The following information is displayed:

### Traffic logs

The following columns are supported by default for event logs: Date/Time, Device ID, FGT Serial, Source, Source IP, Remote IP, Remote Name, URL, User, and Security Action. Click the log details icon to the left of the limit field to view additional log information.

Click the column header to set column settings. Select *More Columns* for additional columns.

Right-click the column field to apply a search filter. Not all columns support this feature.

**Event logs**

The following columns are supported by default for event logs: Date/Time, Device ID, FGT Serial, User, Client Feature, Action, and Message. Click the log details icon to the left of the limit field to view additional log information.

Click the column header to set column settings. Select *More Columns* for additional columns.

Right-click the column field to apply a search filter. Not all columns support this feature.

**Vulnerability Scan logs**

The following columns are supported by default for event logs: Date/Time, UID, Device ID, User, vulnname, vulnseverity, and Vulnerability Category. Click the log details icon to the left of the limit field to view additional log information.

Click the column header to set column settings. Select *More Columns* for additional columns.

Right-click the column field to apply a search filter. Not all columns support this feature.

To download a FortiClient log file, select the desired log from the list, then select *Download* from the Tools menu. In the confirmation dialog box, select if you want to compress the log file with gzip, then select *Apply* to download the log file.

For more information, see the [FortiClient Administration Guide](#).

**FortiMail logs**

The FortiAnalyzer unit can receive logs from a FortiMail. FortiMail logs can be viewed in *FortiView > Log View*. Logs can be viewed in both historical view and in both formatted and raw log views.

ADOMFortiMail

Summary View

Log View

History

Event

AntiVirus

Email Filter

Log Browse

Example: srcip=172.16.86.11 service=HTTP

Device

All Devices

Custom...

GO

Custom View

Tools

#	Date/Time	Device ID	Direction	Mailer	From	To	Virus	Client Name	Destination IP	Disposition
1	08-26 10:19	FE-2KB3R09600010	in	mta	qa100@qa.ca	user8@21.ca		[172.20.140.108]	172.20.140.240	Quarantine;Disclaimer Body;Disclaimer Header
2	08-26 10:19	FE-2KB3R09600010	in	mta	qa100@qa.ca	user13@81.ca		[172.20.140.108]	172.20.140.240	Modify Subject;Quarantine;Disclaimer Body;Disclaimer Header
3	08-26 10:19	FE-2KB3R09600010	in	mta	qa100@qa.ca	user2@78.ca		[172.20.140.108]	172.20.140.240	Modify Subject;Quarantine;Disclaimer Body;Disclaimer Header
4	08-26 10:19	FE-2KB3R09600010	in	mta	qa100@qa.ca	user12@96.ca		[172.20.140.108]	172.20.140.240	Quarantine to Review
5	08-26 10:19	FE-2KB3R09600010	in	mta	qa100@qa.ca	user10@84.ca		[172.20.140.108]	172.20.140.240	Disclaimer Body;Disclaimer

100%

50

Items per page

<< first < prev 1 2 3 4 5 next >

Limit 1,000

Log Details

Classifier

Date/Time

Device ID

Device Time

Disposition

From

Level

Message Length

Resolved

Subject

To

FortiGuard AntiSpam-IP

08-26 10:19

FE-2KB3R09600010

2014-08-26 09:19:27

Quarantine;Disclaimer Body;Disclaimer Header

qa100@qa.ca

1371

FAIL

Erleben Sie noch heute Casino-Gaming der Extraklasse

user8@21.ca

Client Name

Destination IP

Device Name

Direction

Domain

ID

Mailer

Policy ID

Session ID

Time Stamp

Type

[172.20.140.108]

172.20.140.240

FE-2KB3R09600010

in

21.ca

0200031373

mta

19:6:1

s7QHJRLH031372-s7QHJRLI031372

2014-08-26 10:19:27

statistics

Custom View

The following information is displayed:

<b>History logs</b>	<p>The following columns are supported by default for event logs: Date/Time, Device ID, Direction, Mailer, From To, Virus, Client Name, Destination IP, Disposition, Classifier, Session ID, Subject, Message Length, Resolved, Policy ID, and Domain. Click the log details icon to the left of the limit field to view additional log information.</p> <p>Click the column header to set column settings. Select <i>More Columns</i> for additional columns.</p> <p>Right-click the column field to apply a search filter. Not all columns support this feature.</p>
<b>Event logs</b>	<p>The following columns are supported by default for event logs: Date/Time, Device ID, Sub Type, Session ID, and Message. Click the log details icon to the left of the limit field to view additional log information.</p> <p>Click the column header to set column settings. Select <i>More Columns</i> for additional columns.</p> <p>Right-click the column field to apply a search filter. Not all columns support this feature.</p>
<b>AntiVirus logs</b>	<p>The following columns are supported by default for event logs: Date/Time, Device ID, From, To, Source, Message, and Session ID. Click the log details icon to the left of the limit field to view additional log information.</p> <p>Click the column header to set column settings. Select <i>More Columns</i> for additional columns.</p> <p>Right-click the column field to apply a search filter. Not all columns support this feature.</p>
<b>Email Filterlogs</b>	<p>The following columns are supported by default for event logs: Date/Time, Device ID, From, To, Message, Client Name, Subject, Destination IP, and Session ID. Click the log details icon to the left of the limit field to view additional log information.</p> <p>Click the column header to set column settings. Select <i>More Columns</i> for additional columns.</p> <p>Right-click the column field to apply a search filter. Not all columns support this feature.</p>

## FortiManager logs

The FortiAnalyzer unit can receive logs from a FortiManager. FortiManager logs can be viewed in *FortiView > Log View*. Logs can be viewed in both historical view and in both formatted and raw log views.

ADOM

FortiManager

Summary View

Example: srcip=172.16.86.11 service=HTTP

Device

All Devices

Last 7 days

GO

Custom View

Tools

Log View

#	Date/Time	Device ID	Sub Type	Level	User	Message
1	09:21:10	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
2	07:51:55	FMG-VMQA11000137	fgd	ERROR	fgdsvr	update service running database
3	07:51:54	FMG-VMQA11000137	fgd	ERROR	fgdsvr	update service running database
4	06:21:56	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
5	05:41:11	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
6	05:13:15	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
7	04:21:22	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
8	03:41:12	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
9	02:50:27	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
10	02:10:30	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
11	00:21:17	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
12	00:00:41	FMG-VMQA11000137	faz	INFO	system	Used device quota for Nov 05, 2014: 112.88 MB
13	00:00:41	FMG-VMQA11000137	faz	INFO	system	Used log GB/Day for Nov 05, 2014: 0 B
14	00:00:41	FMG-VMQA11000137	faz	INFO	system	Log volume for Nov 05, 2014: 0 B, 1 day average: 0 B
15	11-05 23:41	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
16	11-05 21:51	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
17	11-05 19:51	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.
18	11-05 19:11	FMG-VMQA11000137	fgd	ERROR		Failed to recv response from fds server.

100%

50

Items per page

<< first

< prev

1

2

3

4

5

next >

Limit 1,000

Log Details

Date/Time	09:21:10	Device ID	FMG-VMQA11000137
Device Name	FMG-VMQA11000137	Device Time	2014-11-06 09:21:10
ID	0017026010	Level	ERROR
Message	Failed to recv response from fds server.	Remote Port	443
Sub Type	fgd	Time Stamp	2014-11-06 09:21:10
Type	event		

Custom View

The following information is displayed:

### Event logs

The following columns are supported by default for event logs: Date/Time, Device ID, Sub Type, Level, User, and Message. Click the log details icon to the left of the limit field to view additional log information.

Click the column header to set column settings. Select *More Columns* for additional columns.

Right-click the column field to apply a search filter. Not all columns support this feature.

## FortiSandbox logs

The FortiAnalyzer unit can receive logs from a FortiSandbox. FortiSandbox logs can be viewed in *FortiView > Log View*. Logs can be viewed in both historical view and in both formatted and raw log views.

ADOMFortiSandbox

Summary View

Example: srcip=172.16.86.11 service=HTTPDeviceAll DevicesLast N daysN 365GOCustom ViewTools

Log View

Malware

Network Alerts

Log Browse

#	Date/Time	Level	Risk	Malware Name	Source IP	Destination IP
1	08-21 10:04	ERROR	Clean	N/A	10.1.0.13	192.168.4.76
2	08-21 10:04	ERROR	Clean	N/A	10.1.0.12	192.168.4.76
3	08-21 10:04	ERROR	Clean	N/A	10.1.0.12	192.168.5.76
4	08-21 10:04	ERROR	Clean	N/A	10.1.0.13	192.168.5.76
5	08-21 10:04	ERROR	Clean	N/A	10.1.0.14	192.168.5.76
6	08-21 10:04	ERROR	Clean	N/A	10.1.0.11	192.168.5.76
7	08-21 10:04	ERROR	Clean	N/A	10.1.0.12	192.168.5.76
8	08-21 10:04	ERROR	Clean	N/A	10.1.0.14	192.168.5.76
9	08-21 10:04	ERROR	Clean	N/A	10.1.0.13	192.168.5.76
10	08-21 10:04	ERROR	Clean	N/A	10.1.0.14	192.168.5.76
11	08-21 10:04	ERROR	Clean	N/A	10.1.0.11	192.168.4.76
12	08-21 10:04	ERROR	Clean	N/A	10.1.0.12	192.168.5.76
13	08-21 10:04	ERROR	Clean	N/A	10.1.0.13	192.168.5.76
14	08-21 10:04	ERROR	Clean	N/A	10.1.0.14	192.168.5.76
15	08-21 10:04	ERROR	Clean	N/A	10.1.0.12	192.168.5.76
16	08-21 10:00	ERROR	Clean	N/A	10.1.0.14	192.168.5.76
17	08-21 10:00	ERROR	Clean	N/A	10.1.0.12	192.168.5.76
18	08-21 10:00	ERROR	Clean	N/A	10.1.0.11	192.168.4.76

100%50Items per page<<first<prev123next>Limit 1,000

Log Details

Client DeviceFGT1KB3909601020Client VDOMvdom3

Date/Time08-21 10:04Destination IP192.168.4.76

Destination Port1Device IDFSA1KD3A14000038

Device NameFSA1KD3A14000038Device Time2014-08-21 09:04:58

File NameeNpLSixSS61IBQAKcQKmJob ID1408615443473660

LevelERRORLog ID1015000205

MDS Checksum5e357a2761b79d31ca2f9005214aa367Malware NameN/A

ProtocolTCPRiskClean

SHA 2567283aee289b457e385ea2e50a9f857ffdfdd71998280e77fc50cd4948052960eScan End Time1408615445

Scan Start Time1408615443Source IP10.1.0.13

Source Port1Sub Typemalware

Submit TypeFortiGateTime Stamp2014-08-21 10:04:58

TypemalwareURLhttp://192.168.4.76/app\_data/bar.exe

VM OSWINXP

Custom View

The following information is displayed:

### Malware logs

The following columns are supported by default for event logs: Date/Time, Level, Risk, Malware Name, Source IP, and Destination IP. Click the log details icon to the left of the limit field to view additional log information. Click the column header to set column settings. Select *More Columns* for additional columns.

Right-click the column field to apply a search filter. Not all columns support this feature.

### Network Alerts logs

The following columns are supported by default for event logs: Date/Time, Level, Destination IP:Port, Attack Name, and Host. Click the log details icon to the left of the limit field to view additional log information. Click the column header to set column settings. Select *More Columns* for additional columns.

Right-click the column field to apply a search filter. Not all columns support this feature.

## FortiWeb logs

The FortiAnalyzer unit can receive logs from a FortiWeb. FortiWeb logs can be viewed in *FortiView > Log View*. Logs can be viewed in both historical view and in both formatted and raw log views.

ADOMFortiWeb

Summary View

Log View

Event

Intrusion Prevention

Traffic

Log Browse

Example: srcip=172.16.86.11 service=HTTP

Device

All Devices

Custom...

GO

Custom View

Tools

#	Date/Time	Device ID	Level	User Interface	Action	Message
1	07-08 11:34	FVVM020000020223		GUI	edit	User admin changed forti-analyzer from GUI(192.168.1.254)
2	07-08 11:34	FVVM020000020223	*****	daemon	none	policy 10_12_30_76 concurrent session reduced
3	07-08 11:34	FVVM020000020223	*****	daemon	check-resource	policy 10_12_30_76 concurrent session exceed threshold
4	07-08 11:34	FVVM020000020223	*****	daemon	none	policy 10_12_30_76 concurrent session reduced
5	07-08 11:34	FVVM020000020223	*****	daemon	check-resource	policy 10_12_30_76 concurrent session exceed threshold
6	07-08 11:34	FVVM020000020223	*****	daemon	none	policy 10_12_30_76 concurrent session reduced
7	07-08 11:34	FVVM020000020223	*****	daemon	check-resource	policy 10_12_30_76 concurrent session exceed threshold
8	07-08 11:33	FVVM020000020223	*****	daemon	none	policy 10_12_30_76 concurrent session reduced
9	07-08 11:33	FVVM020000020223	*****	daemon	check-resource	policy 10_12_30_76 concurrent session exceed threshold
10	07-08 11:33	FVVM020000020223	*****	daemon	none	policy 10_12_30_76 concurrent session reduced
11	07-08 11:33	FVVM020000020223	*****	daemon	check-resource	policy 10_12_30_76 concurrent session exceed threshold
12	07-08 11:33	FVVM020000020223	*****	daemon	none	policy 10_12_30_76 concurrent session reduced
13	07-08 11:33	FVVM020000020223	*****	daemon	check-resource	policy 10_12_30_76 concurrent session exceed threshold

100%

50Items per page<<first<prev12next>

Limit 1,000

Log Details

Actionedit

Device IDFVVM020000020223

Device Time2014-07-08 10:34:52

Level\*\*\*\*\*

Message ID238401

Sub Typesystem

Timezone(GMT-8:00)Pacific Time(US&Canada)

Useradmin

Virtual Domainroot

Date/Time07-08 11:34

Device NameFVVM020000020223

ID00021702

MessageUser admin changed forti-analyzer from GUI(192.168.1.254)

Statussuccess

Time Stamp2014-07-08 11:34:52

Typeevent

User InterfaceGUI

Custom View

The following information is displayed:

**Event logs**

The following columns are supported by default for event logs: Date/Time, Device ID, Level, User Interface, Action, and Message. Click the log details icon to the left of the limit field to view additional log information. Click the column header to set column settings. Select *More Columns* for additional columns. Right-click the column field to apply a search filter. Not all columns support this feature.

**Intrusion Prevention logs**

The following columns are supported by default for event logs: Date/Time, Device ID, Source, Destination, Policy, Action, HTTP URL, HTTP Host, and Message. Click the log details icon to the left of the limit field to view additional log information. Click the column header to set column settings. Select *More Columns* for additional columns. Right-click the column field to apply a search filter. Not all columns support this feature.

**Traffic logs**

The following columns are supported by default for event logs: Date/Time, Device ID, Service, Source, Destination, Policy, HTTP Method, HTTP RETCODE, and Message. Click the log details icon to the left of the limit field to view additional log information. Click the column header to set column settings. Select *More Columns* for additional columns. Right-click the column field to apply a search filter. Not all columns support this feature.

**Syslog server logs**

The FortiAnalyzer unit can receive logs from a syslog server. Syslog logs can be viewed in *FortiView > Log View > Syslog*. Event logs are available. Logs can be viewed in both historical and real-time views and in both formatted and raw log views.

#	Date/Time	Device ID	Level	Message
1	11-03 00:13	SYSLOG-AC105101	INFO	395: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
2	11-02 08:29	SYSLOG-AC105101	INFO	394: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=1
3	10-31 13:20	SYSLOG-AC105101	INFO	393: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
4	10-31 09:21	SYSLOG-AC105101	INFO	392: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=3
5	10-31 09:21	SYSLOG-AC105101	INFO	391: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
6	10-31 09:21	SYSLOG-AC105101	INFO	390: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
7	10-31 09:20	SYSLOG-AC105101	INFO	388: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
8	10-31 09:20	SYSLOG-AC105101	INFO	387: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=3
9	10-30 18:20	SYSLOG-AC105101	INFO	386: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
10	10-30 18:20	SYSLOG-AC105101	INFO	385: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
11	10-30 18:15	SYSLOG-AC105101	INFO	384: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
12	10-30 18:15	SYSLOG-AC105101	INFO	383: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
13	10-30 18:14	SYSLOG-AC105101	INFO	382: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=3
14	10-30 18:02	SYSLOG-AC105101	INFO	379: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=3
15	10-30 18:02	SYSLOG-AC105101	INFO	378: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
16	10-30 18:02	SYSLOG-AC105101	INFO	377: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
17	10-30 18:02	SYSLOG-AC105101	INFO	376: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
18	10-30 18:02	SYSLOG-AC105101	INFO	375: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2
19	10-30 17:33	SYSLOG-AC105101	INFO	374: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=3

Log Details			
Date/Time	11-03 00:13	Device ID	SYSLOG-AC105101
Device Time	2014-11-03 00:13:36	Level	INFO
Message	395: %LANCE-S-COLL: Unit 0, excessive collisions. TDR=2		
Type	generic		
Time Stamp	2014-11-03 00:13:36		

The following information is displayed:



**Syslog logs**

The following columns are supported by default for event logs: Date/Time, Device ID, Level, and Message. Click the log details icon to the left of the limit field to view additional log information.

Click the column header to set column settings. Select *More Columns* for additional columns.

Right-click the column field to apply a search filter. Not all columns support this feature.

## Configuring rolling and uploading of logs

You can control device log file size and use of the FortiAnalyzer unit's disk space by configuring log rolling and scheduled uploads to a server.

As the FortiAnalyzer unit receives new log items, it performs the following tasks:

- verifies whether the log file has exceeded its file size limit
- checks to see if it is time to roll the log file if the file size is not exceeded.

Configure the time to be either a daily or weekly occurrence, and when the roll occurs. When a current log file (`tlog.log`) reaches its maximum size, or reaches the scheduled time, the FortiAnalyzer unit rolls the active log file by renaming the file. The file name will be in the form of `xlog.N.log` (for example, `tlog.1252929496.log`), where `x` is a letter indicating the log type and `N` is a unique number corresponding to the time the first log entry was received. The file modification time will match the time when the last log was received in the log file.

Once the current log file is rolled into a numbered log file, it will not be changed. New logs will be stored in the new current log called `tlog.log`. If log uploading is enabled, once logs are uploaded to the remote server or downloaded via the GUI, they are in the following format:

```
FG3K6A3406600001-tlog.1252929496.log-2012-09-29-08-03-54.gz
```

If you have enabled log uploading, you can choose to automatically delete the rolled log file after uploading, thereby freeing the amount of disk space used by rolled log files. If the log upload fails, such as when the FTP server is unavailable, the logs are uploaded during the next scheduled upload.

Log rolling and uploading can be enabled and configured in the GUI in *System Settings > Advanced > Device Log Settings*. For more information, see [Device log settings on page 118](#). Log rolling and uploading can also be enabled and configured using the CLI. For more information, see the [FortiAnalyzer CLI Reference](#).

### To enable or disable log file uploads:

To enable log uploads, enter the following CLI commands:

```
config system log settings
  config rolling-regular
    set upload enable
  end
end
```

To disable log uploads, enter the following CLI commands:

```
config system log settings
  config rolling-regular
    set upload disable
  end
end
```

**To roll logs when they reach a specific size:**

Enter the following CLI commands:

```
config system log settings
  config rolling-regular
    set file-size <integer>
  end
end
```

where <integer> is the size at which the logs will roll, in MB.

**To roll logs on a schedule:**

To disable log rolling, enter the following CLI commands:

```
config system log settings
  config rolling-regular
    set when none
  end
end
```

To enable daily log rolling, enter the following CLI commands:

```
config system log settings
  config rolling-regular
    set upload enable
    set when daily
    set hour <integer>
    set min <integer>
    set file-size <integer>
  end
end
```

where:

hour <integer>	The hour of the day when the when the FortiAnalyzer rolls the traffic analyzer logs.
min <integer>	The minute when the FortiAnalyzer rolls the traffic analyzer logs.
file-size <integer>	Roll log files when they reach this size (MB).

To enable weekly log rolling, enter the following CLI commands:

```
config system log settings
  config rolling-regular
    set when weekly
    set days {mon | tue | wed | thu | fri | sat | sun}
    set hour <integer>
    set min <integer>
  end
end
```

where:

<code>days {mon         tue   wed         thu   fri         sat   sun}</code>	The days week when the FortiAnalyzer rolls the traffic analyzer logs.
<code>hour &lt;integer&gt;</code>	The hour of the day when the when the FortiAnalyzer rolls the traffic analyzer logs.
<code>min &lt;integer&gt;</code>	The minute when the FortiAnalyzer rolls the traffic analyzer logs.

# Event Management

In the *Event Management* tab you can configure events handlers based on log type and logging filters. You can select to send the event to an email address, SNMP community, or syslog server. Events can be configured per device, for all devices, or for the local FortiAnalyzer. You can create event handlers for FortiGate, FortiCarrier, FortiCache, FortiMail, FortiManager, FortiWeb, FortiSandbox devices, and syslog servers. In v5.2.0 or later, Event Management supports local FortiAnalyzer event logs.

Events can also be monitored, and the logs associated with a given event can be viewed.



When rebuilding the SQL database, Event Management will not be available until after the rebuild is completed. Select the *Show Progress* link in the message to view the status of the SQL rebuild.

## Events

The events page provides a list of the generated events. Right-clicking on an event in the table gives you the option of viewing event details including the raw log entries associated with that event, adding review notes, and acknowledging the event.

To view events, go to the *Event Management* tab and select *Event Management > All Events*. You can also view events by severity and by handler. When ADOMs are enabled, select the ADOM, and then select *All Events*.

Count	Event Name	Severity	Event Type	Additional Info	Last Occurrence
1	UTM DLP Event	Medium	DLP	data leak detected(Data Leak Prevention R...	2014-12-01 14:13:51
3	UTM DLP Event	Medium	DLP	data leak detected(Data Leak Prevention R...	2014-12-01 13:45:37
3	UTM DLP Event	Medium	DLP	data leak detected(Data Leak Prevention R...	2014-12-01 13:04:48
1	FL-2KB3R09600010	Medium	Event	Deleted all log files of FL3K5E3M14000001 d...	2014-12-01 13:03:03
2	UTM DLP Event	Medium	DLP	data leak detected(Data Leak Prevention R...	2014-12-01 12:21:13
1	FL-2KB3R09600010	Medium	Event	Backup all settings succeed	2014-12-01 12:01:23
1	Malicious Websites	Medium	WebFilter	Security Risk	2014-12-01 11:32:37
2	UTM DLP Event	Medium	DLP	data leak detected(Data Leak Prevention R...	2014-12-01 11:26:48
123	HTTP.URL.SQL.Injection	High	IPS	SQL Injection	2014-12-01 11:18:20
3	Apache.Struts.2.ParametersInterce...	High	IPS	Code Injection	2014-12-01 11:17:40
1	Apache.Struts.XSS	High	IPS	XSS	2014-12-01 11:16:42
2	Logf1.CMS.WriteInfo.PHP.Code.Injection	High	IPS	Code Injection	2014-12-01 11:16:30
1	Ubiquiti.Networks.AirOS.admin.cgi.Remote...	High	IPS	Permission/Privilege/Access Control	2014-12-01 11:16:28
3	MS.Dynamics.AX.Enterprise.Portal.XSS	High	IPS	XSS	2014-12-01 11:14:42
1	CTEK.SkyRouter.Arbitrary.Command.Execut...	High	IPS	Permission/Privilege/Access Control	2014-12-01 11:13:52
1	Proxy.HTTP	Medium	Application Control	Proxy	2014-12-01 11:13:50
2	ELearning.Server.4G.SQL.Injection	High	IPS	SQL Injection	2014-12-01 11:13:47
1	AUTH.TLS.Plaintext.Command.Injection	High	IPS	Resource Management Errors	2014-12-01 11:13:33
1	AlcateI.OmniPCX.Office.FastJSData.CGI.ID2...	Critical	IPS	Other	2014-12-01 11:13:33
14	SOCKS5	Medium	Application Control	Proxy	2014-12-01 11:13:24

50 Items per Page <<First <Prev 1 >Next >>Last Go to Page 1 of 1

The following information is displayed:

<b>Count</b>	The number of log entries associated with the event. Click the heading to sort events by count.
<b>Event Name</b>	The name of the event. Click the heading to sort events by event name.
<b>Severity</b>	The severity level of the event. Event severity level is a user configured variable. The severity can be <i>Critical</i> , <i>High</i> , <i>Medium</i> , or <i>Low</i> . Click the heading to sort events by severity.
<b>Event Type</b>	The event type. For example, <i>Traffic</i> or <i>Event</i> . Click the heading to sort events by event type. IPS and Application Control event names are links. Select the link to view additional information.
<b>Additional Info</b>	Additional information about the event. Click the heading to sort events by additional information.
<b>Last Occurrence</b>	The date and time that the event was created and added to the events page. Click the heading to sort events by last occurrence.
<b>Pagination</b>	Adjust the number of logs that are listed per page and browse through the pages.

The following options are available:

<b>Refresh</b>	Select to refresh the entries displayed.
<b>Time Period</b>	Select a time period from the drop-down list. Select one of: <i>Last 30 mins</i> , <i>Last 1 hour</i> , <i>Last 4 hours</i> , <i>Last 12 hours</i> , <i>Last 1 day</i> , <i>Last 7 days</i> , <i>Last N hours</i> , <i>Last N days</i> , <i>All</i> . If applicable, enter the number of days or hours for N in the <i>N</i> text box.
<b>Show Acknowledged</b>	Select to show or hide acknowledged events. Acknowledged events are grayed out in the list.
<b>Search</b>	Search for a specific event.
<b>View Details</b>	The <i>Event Details</i> page is displayed. This option is available in the right-click menu. See <a href="#">Event details on page 173</a> .
<b>Acknowledge</b>	Acknowledge an event. If <i>Show Acknowledge</i> is not selected, the event will be hidden. This option is available in the right-click menu. See <a href="#">Acknowledge events on page 175</a> .




## Event details

Event details provides a summary of the event including the event name, severity, type, count, additional information, last occurrence, device, event handler, raw log entries, and review notes. You can also acknowledge and print events in this page.

### To view log messages associated with an event:

1. In the events list, either double-click on an event or right-click on an event then select *View Details* in the right-click menu. The *Event Details* page opens.

**Event Details - Apache.Struts.2.ParametersInterceptor.ognl.Command.Execution**

Event Name: Apache.Struts.2.Parameter...    Additional Info: Code Injection           
Severity: High    Last Occurrence: Dec 01, 11:17:40  
Type:  IPS    Device: Fortigate-VM64  
Count: 3    Event Handler: [IPS - High Severity](#)    1021

---

**Top 1000 Logs**

#	Date/Time	Source/Device	Destination IP	Service	Sent/Received	Attack Name	Security Action
1	2014-12-01 11:17:16	192.168.1.99	192.168.3.3	http	- / -	Apache.Struts.2.ParametersInterceptor.ognl.Command.Execution	-
2	2014-12-01 11:17:16	192.168.1.99	192.168.3.3	http	- / -	Apache.Struts.2.ParametersInterceptor.ognl.Command.Execution	-
3	2014-12-01 11:17:36	192.168.1.99	192.168.3.3	http	- / -	Apache.Struts.2.ParametersInterceptor.ognl.Command.Execution	-

50 Items per Page    <<First    <Prev    1    >Next    >>Last    Go to Page 1 of 1

<b>Action</b>	dropped	<b>Attack ID</b>	31410
<b>Attack Name</b>	Apache.Struts.2.ParametersInterceptor.ognl.Command.Execution	<b>Count</b>	1
<b>Date/Time</b>	2014-12-01 11:17:16	<b>Destination IP</b>	192.168.3.3
<b>Destination Interface</b>	port2	<b>Destination Port</b>	80
<b>Device ID</b>	FGVM02Q105060010	<b>Device Time</b>	2014-12-01 11:17:19
<b>Group</b>	N/A	<b>Incident Serial No.</b>	1507120362
<b>Level</b>	alert	<b>Log ID</b>	16384
<b>Message</b>	apache: Apache.Struts.2.ParametersInterceptor.ognl.Command.Execution	<b>Policy ID</b>	2
<b>Profile</b>	default	<b>Profile Type</b>	N/A
<b>Protocol</b>	6	<b>Reference</b>	http://www.fortinet.com/ids/VID31410
<b>Sequence No.</b>	35204884	<b>Service</b>	http
<b>Severity</b>	high	<b>Source IP</b>	192.168.1.99
<b>Source Interface</b>	port3	<b>Source Port</b>	50280
<b>Sub Type</b>	signature	<b>Type</b>	ips
<b>User</b>	N/A	<b>Virtual Domain</b>	root

The following information and options are available:

<b>Print</b>	Select the print icon to print the event details page. The log details pane is not printed.
<b>Return</b>	Select the return icon to return to the <i>All Events</i> page.
<b>Event Name</b>	The name of the event, also displayed in the title bar.
<b>Severity</b>	The severity level configured for the event handler.
<b>Type</b>	The event category of the event handler.
<b>Count</b>	The number of logged events associated with the event.
<b>Additional Info</b>	This field either displays additional information for the event or a link to the <a href="#">FortiGuard Encyclopedia</a> . A link will be displayed for Antivirus, Application Control, and IPS event types.
<b>Last Occurrence</b>	The date and time of the last occurrence.
<b>Device</b>	The device hostname associated with the event.
<b>Event Handler</b>	The name of the event handler associated with the event. Select the link to edit the event handler. See <a href="#">Event handler on page 175</a> .

<b>Text box</b>	Optionally, you can enter a 1023 character comment in the text field. Select the save icon to save the comment, or cancel to cancel your changes.
<b>Logs</b>	The logs associated with the log event are displayed. The columns and log fields are dependent on the event type.
<b>Pagination</b>	Adjust the number of logs that are listed per page and browse through the pages.
<b>Log details</b>	Log details are shown in the lower content pane for the selected log. The details will vary based on the log type.

2. Select the return icon to return to the *All Events* page.

## Acknowledge events

You can select to acknowledge events to remove them from the event list. An option has been added to this page to allow you to show or hide these acknowledged events.

### To acknowledge events:

1. From the event list, select the event or events that you would like to acknowledge.
2. Right-click and select *Acknowledge* in the right-click menu.
3. Select the *Show Acknowledge* checkbox in the toolbar to view acknowledged events.

## Event handler

The event handler allows you to view, create new, edit, delete, clone, and search event handlers. You can select these options in the toolbar. The right-click menu includes these options and also includes the ability to enable or disable configured event handlers. You can create event handlers for a specific device, multiple devices, or the local FortiAnalyzer. You can select to create event handlers for traffic logs or event logs.

FortiAnalyzer v5.2.0 or later includes default event handlers for FortiGate and FortiCarrier devices. Click on the event handler name to enable or disable the event handler and to assign devices to the event handler.

Event Handler	Description
<b>Antivirus Event</b>	Severity: High Log Type: Traffic Log Event Category: AntiVirus Group by: Virus Name Log messages that match all conditions: <ul style="list-style-type: none"> <li>• <i>Level Greater Than or Equal To Information</i></li> </ul>

Event Handler	Description
<b>App Ctrl Event</b>	Severity: Medium Log Type: Traffic Log Event Category: Application Control Group by: Application Name Log messages that match any of the following conditions: <ul style="list-style-type: none"> <li><i>Application Category Equal To Botnet</i></li> <li><i>Application Category Equal To Proxy</i></li> </ul>
<b>Conserve Mode</b>	Severity: Critical Log Type: Event Log Event Category: System Group by: Message Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Log Description Equal To System services entered conserve mode</i></li> </ul>
<b>DLP Event</b>	Severity: Medium Log Type: Traffic Log Event Category: DLP Group by: DLP Rule Name Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Security Action Equal To Blocked</i></li> </ul>
<b>HA Failover</b>	Severity: Medium Log Type: Event Log Event Category: HA Group by: Log Description Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Log Description Equal To Virtual cluster move member</i></li> </ul>
<b>Interface Down</b>	Severity: High Log Type: Event Log Event Category: System Group by: Message Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Action Equal To interface-stat-change</i></li> <li><i>Status Equal To DOWN</i></li> </ul>
<b>Interface Up</b>	Severity: Medium Log Type: Event Log Event Category: System Group by: Message Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Action Equal To interface-stat-change</i></li> <li><i>Status Equal To UP</i></li> </ul>



Event Handler	Description
<b>IPS - Critical Severity</b>	Severity: Critical Log Type: IPS Group by: Attack Name Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Severity Equal To Critical</i></li> </ul>
<b>IPS - High Severity</b>	Severity: High Log Type: IPS Group by: Attack Name Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Severity Equal To High</i></li> </ul>
<b>IPS - Medium Severity</b>	Severity: Medium Log Type: IPS Group by: Attack Name Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Severity Equal To Medium</i></li> </ul>
<b>IPS - Low Severity</b>	Severity: Low Log Type: IPS Group by: Attack Name Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Severity Equal To Low</i></li> </ul>
<b>IPsec Phase2 Down</b>	Severity: Medium Log Type: Event Log Event Category: VPN Group By: VPN Tunnel Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Action Equal To phase2-down</i></li> </ul>
<b>IPsec Phase2 Up</b>	Severity: Medium Log Type: Event Log Event Category: VPN Group By: VPN TunnelLog messages that match all conditions: <ul style="list-style-type: none"> <li><i>Action Equal To phase2-up</i></li> </ul>
<b>Local Device Event</b>	Devices: Local FortiAnalyzerSeverity: Medium Log Type: Event Log Event Category: Endpoint Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Level Greater Than or Equal To Warning</i></li> </ul>

Event Handler	Description
<b>Power Supply Failure</b>	Severity: Critical Log Type: Event Log Event Category: System Group by: Message Log messages that match any of the following conditions: <ul style="list-style-type: none"> <li><i>Action Equal To power-supply-monitor</i></li> <li><i>Status Equal To failure</i></li> </ul>
<b>UTM Antivirus Event</b>	Severity: High Log Type: Virus Group by: Virus Name Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Level Greater Than or Equal To Information</i></li> </ul>
<b>UTM App Ctrl Event</b>	Severity: Medium Log Type: Application Control Group by: Application Name Log messages that match any of the following conditions: <ul style="list-style-type: none"> <li><i>Application Category Equal To Botnet</i></li> <li><i>Application Category Equal To Proxy</i></li> </ul>
<b>UTM DLP Event</b>	Severity: Medium Log Type: DLP Group by: DLP Rule Name Log messages that match all conditions: <ul style="list-style-type: none"> <li><i>Action Equal To Block</i></li> </ul>
<b>UTM Web Filter Event</b>	Severity: Medium Log Type: Web Filter Group by: Category Log messages that match any of the following conditions: <ul style="list-style-type: none"> <li><i>Web Category Equal To Child Abuse, Discrimination, Drug Abuse, Explicit Violence, Extremist Groups, Hacking, Illegal or Unethical, Plagiarism, Proxy Avoidance, Malicious Websites, Phishing, Spam URLs</i></li> </ul>
<b>Web Filter Event</b>	Severity: Medium Log Type: Traffic Log Event Category: WebFilter Group by: Category Log messages that match any of the following conditions: <ul style="list-style-type: none"> <li><i>Web Category Equal To Child Abuse, Discrimination, Drug Abuse, Explicit Violence, Extremist Groups, Hacking, Illegal or Unethical, Plagiarism, Proxy Avoidance, Malicious Websites, Phishing, Spam URLs</i></li> </ul>

Go to the *Event Management* tab and select *Event Handler* in the tree menu.

<div> <span>Create New</span> <span>Edit</span> <span>Delete</span> <span>Clone</span> </div> <div>Search</div>						
Status	Name	Filters	Event Type	Devices	Severity	Send Alert to
✓	Antivirus Event	Level Greater Than or Equal To Information	Antivirus	All Devices	High	admin@company.com
✗	App Ctrl Event	Application Category Equal To Botnet Application Category Equal To Proxy	Application Control	All Devices	Medium	
✓	DLP Event	Security Action Equal To Blocked	DLP	All Devices	Medium	
✓	UTM Antivirus Event	Level Greater Than or Equal To Information	Antivirus	All Devices	High	
✓	UTM App Ctrl Event	Application Category Equal To Botnet Application Category Equal To Proxy	Application Control	All Devices	Medium	
✓	UTM DLP Event	Action Equal To Block	DLP	All Devices	Medium	
✓	UTM IPS Event	Severity Equal To Critical	IPS	All Devices	High	
✓	UTM Web Filter Event	Web Category Equal To Child Abuse Web Category Equal To Discrimination Web Category Equal To Drug Abuse Web Category Equal To Explicit Violence Web Category Equal To Extremist Groups Web Category Equal To Hacking Web Category Equal To Illegal or Unethical Web Category Equal To Plagiarism Web Category Equal To Proxy Avoidance Web Category Equal To Malicious Websites Web Category Equal To Phishing Web Category Equal To Spam URLs	WebFilter	All Devices	Medium	
✓	Web Filter Event	Web Category Equal To Child Abuse Web Category Equal To Discrimination Web Category Equal To Drug Abuse Web Category Equal To Explicit Violence Web Category Equal To Extremist Groups Web Category Equal To Hacking Web Category Equal To Illegal or Unethical Web Category Equal To Plagiarism Web Category Equal To Proxy Avoidance Web Category Equal To Malicious Websites Web Category Equal To Phishing Web Category Equal To Spam URLs	WebFilter	All Devices	Medium	

50 Items per Page
<<First
<Prev
1
>Next
>>Last
Go to Page 1 of 1

The following information is displayed:

<b>Status</b>	The status of the event handler (enabled or disabled).
<b>Name</b>	The name of the event handler.
<b>Filters</b>	The filters that are configured for the event handler.
<b>Event Type</b>	The event category of the event handler. The information displayed is dependent on the platform type.
<b>Devices</b>	The devices that you have configured for the event handler. This field will either display <i>All Devices</i> or list each device. When you have configured an event handler for local logs, <i>Local FortiAnalyzer</i> will be displayed. <i>Local FortiAnalyzer</i> is available in the root ADOM only and is used to query FortiAnalyzer event logs.
<b>Severity</b>	The severity that you configured for the event handler. This field will display <i>Critical</i> , <i>High</i> , <i>Medium</i> , or <i>Low</i> .
<b>Send Alert to</b>	The email address, SNMP server, or syslog server that has been configured for the event handler.

Right-click on an event handler in the list to open the right-click menu. The following options are available:

<b>Create New</b>	Select to create a new event handler. This option is available in the toolbar and right-click menu. See <a href="#">To create a new event handler: on page 180</a> .
<b>Edit</b>	Select an event handler and select edit to make changes to the entry. This option is available in the toolbar and right-click menu. See <a href="#">To edit an event handler: on page 184</a> .
<b>Delete</b>	Select one or all event handlers and select delete to remove the entry or entries. This option is available in the toolbar and right-click menu. The default event handlers cannot be deleted. See <a href="#">To delete an event handler: on page 184</a> .
<b>Clone</b>	Select an event handler in this page and click to clone the entry. A cloned entry will have <i>Copy</i> added to its name field. You can rename the cloned entry while editing the event handler. This option is available in the toolbar and right-click menu. See <a href="#">To clone an event handler: on page 184</a> .
<b>Enable</b>	Select to enable the event handler.
<b>Disable</b>	Select to disable the event handler.

## Manage event handlers



You can create traffic, event, and extended log handlers to monitor network traffic and events based on specific log filters. These log handlers can then be edited, deleted, cloned, and enabled or disabled as needed.

### To create a new event handler:

1. Go to *Event Management > Event Handler*.
2. Select *Create New* in the toolbar, or right-click on an the entry and select *Create New* in the right-click menu. The *Create New Event Handler* dialog box is displayed.
3. Enter a name for the new event handler and select *OK*. The *Event Handler* page opens with the *Definition* tab


displayed.

**Definition** Notification

Status ☒ Enabled  ☐ Disabled 

Name

Description

Devices ☐ All Devices ☒ Specify ☐ Local FortiManager  
 


Severity

### Filters

Log Type

Event Category

Log messages that match ☒ All ☐ Any of the Following Conditions

 Add Filter

Log Field	Match Criteria	Value
<input type="text" value="Level"/>	<input type="text" value="Equal To"/>	<input type="text" value="Emergency"/>

Generic Text Filter 

## 4. Configure the following settings:

<b>Status</b>	Enable or disable the event handler. <ul style="list-style-type: none"> <li>• Enabled</li> <li>• Disabled</li> </ul>
<b>Name</b>	Edit the name if required.
<b>Description</b>	Enter a description for the event handler.
<b>Devices</b>	Select All Devices, select Specify and use the add icon to add devices. Select <i>Local FortiAnalyzer</i> if the event handler is for local FortiAnalyzer event logs. <i>Local FortiAnalyzer</i> is available in the root ADOM only and is used to query FortiAnalyzer event logs.
<b>Severity</b>	Select the severity from the drop-down list. Select one of the following: <ul style="list-style-type: none"> <li>• Critical</li> <li>• High</li> <li>• Medium</li> <li>• Low</li> </ul>
<b>Filters</b>	
<b>Log Type</b>	Select the log type from the drop-down list. The available options are: <i>Traffic Log</i> , <i>Event Log</i> , <i>Application Control</i> , <i>DLP</i> , <i>IPS</i> , <i>Virus</i> , and <i>Web Filter</i> . The <i>Log Type</i> is <i>Event Log</i> when <i>Devices</i> is <i>Local FortiAnalyzer</i> .
<b>Event Category</b>	Select the category of event that this handler will monitor from the drop-down list. The available options is dependent on the platform type. This option is only available when <i>Log Type</i> is set to <i>Traffic Log</i> and <i>Devices</i> is set to <i>All Devices</i> or <i>Specify</i> .
<b>Group by</b>	Select the criterium by which the information will be grouped. This option is not available when <i>Log Type</i> is set to <i>Traffic Log</i> .
<b>Log message that match</b>	Select either All or Any of the Following Conditions. When <i>Devices</i> is <i>local FortiAnalyzer</i> , this option is not available.
<b>Add Filter</b>	Select the add icon to add log filters. When <i>Devices</i> is <i>local FortiAnalyzer</i> , this option is not available. You can only set one log field filter.
<b>Log Field</b>	Select a log field to filter from the drop-down list. The available options will vary depending on the selected log type.
<b>Match Criteria</b>	Select a match criteria from the drop-down list. The available options will vary depending on the selected log field.

<b>Value</b>	Either select a value from the drop-down list, or enter a value in the text box. The available options will vary depending on the selected log field.
<b>Delete</b>	Select the delete icon, to delete the filter. A minimum of one filter is required.
<b>Generic Text Filter</b>	Enter a generic text filter. For more information on creating a text filter, hover the cursor over the help icon.

5. Select *Apply* to save the *Definition* settings.
6. Select the *Notification* tab.

Definition
Notification

---


Generate alert when at least  matches occurred over a period of  minutes.


☒ Send Alert Email


To

From

Subject

Email Server  

☒ Send SNMP Trap to  

☒ Send Alert to Syslog Server  

7. Configure the following settings:

<b>Generate alert when at least</b>	Enter threshold values to generate alerts. Enter the number, in the first text box, of each type of event that can occur in the number of minutes entered in the second text box.
<b>Send Alert Email</b>	Select the checkbox to enable. Enter an email address in the <i>To</i> and <i>From</i> text fields, enter a subject in the <i>Subject</i> field, and select the email server from the drop-down list. Select the add icon to add an email server. For information on creating a new mail server, see <a href="#">Mail server on page 115</a> .
<b>Send SNMP Trap to</b>	Select the checkbox to enable this feature. Select an SNMP community from the drop-down list. Select the add icon to add a SNMP community
<b>Send Alert to Syslog Server</b>	Select the checkbox to enable this feature. Select a syslog server from the drop-down list. Select the add icon to add a syslog server. For information on creating a new syslog server, see <a href="#">Syslog server on page 115</a>

8. Select *Apply* to create the new event handler.
9. Select *Return* to return to the *Event Handler* page.

**To edit an event handler:**

1. Go to *Event Management > Event Handler*.
2. Select an event handler entry and either select *Edit* in the toolbar, or right-click on the entry and select *Edit* in the pop-up menu. The *Edit Event Handler* page opens.
3. Edit the settings as required.
4. Select *Apply* to save the configuration.
5. Select *Return* to return to the *Event Handler* page.

**To clone an event handler:**

1. Go to *Event Management > Event Handler*.
2. Select an event handler entry and either select *Clone* in the toolbar, or right-click on the entry and select *Clone* in the pop-up menu. The *Clone Event Handler* window opens.
3. Edit the settings as required.
4. Select *Apply* to save the configuration.
5. Select *Return* to return to the *Event Handler* page.

**To delete an event handler:**

1. Go to *Event Management > Event Handler*.
2. Select an event handler entry and either select *Delete* in the toolbar, or right-click on the entry and select *Delete* in the pop-up menu.
3. Select *OK* in the confirmation dialog box to delete the event handler.



The default event handlers cannot be deleted. Use the right-click menu to enable or disable these event handlers. You can also select to clone the default event handlers.

---

**To enable an event handler:**

1. Go to *Event Management > Event Handler*.
2. Select an event handler entry, right-click and select *Enable* in the pop-up menu. The status field will display a enabled icon.

**To disable an event handler:**

1. Go to *Event Management > Event Handler*.
2. Select an event handler entry, right-click and select *Disable* in the pop-up menu. The status field will display a disabled icon.



# Reports

FortiAnalyzer units can analyze information collected from the log files of managed log devices. It then presents the information in tabular and graphical reports that provide a quick and detailed analysis of activity on your networks.

To reduce the number of reports needed, reports are independent from devices, and contain layout information in the form of a report template. The devices, and any other required information, can be added as parameters to the report at the time of report generation.

Report files are stored in the reserved space for the FortiAnalyzer device. See [Disk space allocation on page 40](#).



Additional configuration options and short-cuts are available using the right-click menu. Right-click the mouse on different navigation panes on the GUI page to access these options.

---

The *Reports* tab allows you to configure reports using the predefined report templates, configure report schedules, view report history and the report calendar, and configure and view charts, macros, datasets, and output profiles.



If ADOMs are enabled, each ADOM will have its own report settings including chart library, macro library, dataset library, and output profiles. FortiCarrier, FortiCache, FortiMail and FortiWeb reports are available when ADOMs are enabled. Reports for these devices are configured within their respective default ADOM. These devices also have device specific charts and datasets.

---



When rebuilding the SQL database, Reports will not be available until after the rebuild is completed. Select the *Show Progress* link in the message to view the status of the SQL rebuild.

---

This chapter contains the following sections:

- [Reports](#)
- [Report layouts](#)
- [Chart library](#)
- [Macro library](#)
- [Report calendar](#)
- [Advanced](#)

## Reports

FortiAnalyzer includes preconfigured reports and report templates for FortiGate, FortiMail, and FortiWeb log devices. These report templates can be used as is, or you can clone and edit the templates. You can also create new reports and report templates that can be customized to your requirements.



Predefined report templates are identified by a blue report icon and custom report templates are identified by a green report icon. When a schedule has been enabled, the schedule icon will appear to the left of the report template name.

FortiAnalyzer includes preconfigured reports and report templates for FortiGate, FortiMail, and FortiWeb log devices. These report templates can be used as is, or you can clone and edit the templates. You can also create new reports and report templates that can be customized to your requirements.



Predefined report templates are identified by a blue report icon and custom report templates are identified by a green report icon. When a schedule has been enabled, the schedule icon will appear to the left of the report template name.

## FortiGate reports

The following tables list the default report templates.

Admin and System Events Report	Security Analysis
Application Risk and Control	Threat Report
Application and Risk Analysis	User Report
Bandwidth and Applications Report	User Security Analysis
Client Reputation	VPN Report
Detailed Application Usage and Risk	Web Usage Report
Email Report	WiFi Network Summary
IPS Report	Wireless PCI Compliance

The following report template can be found in the *Application* folder.

Applications - Top 20 Categories and Applications (Bandwidth)	Applications - Top Allowed and Blocked with Timestamps
Applications - Top 20 Categories and Applications (Session)	

The following report templates can be found in the *Detailed User Report* folder.

User Detailed Browsing Log	User Top 500 Websites by Session
User Top 500 Websites by Bandwidth	

The following report templates can be found in the *Web* report folder.

Websites - Hourly Website Hits	Websites - Top 20 Category And Websites (Hits)
Websites - Top 20 Category And Websites (Bandwidth)	Websites - Top 500 Sessions by Bandwidth

## FortiMail reports

The following table lists report templates exclusive to FortiMail devices.

FortiMail Analysis Report	FortiMail Default Report
---------------------------	--------------------------

## FortiWeb report

The following table lists report templates exclusive to FortiWeb devices.

FortiWeb Default Report
-------------------------

## FortiCache report

The following table lists report templates exclusive to FortiCache devices.

FortiCache Default Report
---------------------------

## Report configuration

In the *Reports* tab, go to *Reports > [report]* to view and configure the report configuration, advanced settings, and layout, and to view completed reports. The currently running reports and completed reports are shown in the *View Report* tab, see [View report tab on page 194](#).

Right-clicking on a template in the tree menu opens a pop-up menu with options to *Create New*, *Rename*, *Clone*, *Delete*, *Import*, or *Export* reports, and to *Create New*, *Rename*, or *Delete* folders.

Reports and report templates can be created, edited, cloned, and deleted. You can also import and export report templates. New content can be added to and organized on a template, including: new sections, three levels of headings, text boxes, images, charts, and line and page breaks.

### To create a new report:

1. In the *Reports* tab, right-click on *Reports* in the tree menu.
2. Under the *Report* heading, select *Create New*. The *Create New Report* dialog box opens.
3. Enter a name for the new report and select *OK*.
4. Configure report settings in the [Configuration tab on page 189](#). The configuration tab includes time period, device selection, report type, schedule, and notifications.



To create a custom cover page, you must select *Print Cover Page* in the *Advanced Settings* menu in the *Advanced Settings* tab.

5. Select the **Layout** tab to configure the report template.
6. Select the [Advanced on page 211](#) to configure report filters and other advanced settings.
7. Select *Apply* to save the report template.

**To clone a report:**

1. Right-click on the report you would like to clone in the tree menu and select *Clone*. The *Clone Report Template* dialog box opens.
2. Enter a name for the new template, then select *OK*.  
A new template with the same information as the original template is created with the given name. You can then modify the cloned report as required.

**To delete a report:**

1. Right-click on the report template that you would like to delete in the tree menu, and select *Delete* under the *Report* heading.
2. In the confirmation dialog box, select *OK* to delete the report template.

**Import and export**

Report templates can be imported from and exported to the management computer.

**To import a report template:**

1. Right-click on *Reports*, and select *Import*. The *Import Report Template* dialog box opens.
2. Select *Browse*, locate the report template (.dat) file on your management computer, and select *OK*.  
The report template will be loaded into the FortiAnalyzer unit.

**To export a report template:**

1. Right-click on the report you would like to export in the tree menu and select *Export*.
2. If a dialog box opens, select to save the file (.dat) to your management computer, and select *OK*.  
The report template can now be imported to another FortiAnalyzer device.

**Report folders**

Report folders can be used to help organize your reports.

**To create a new report folder:**

1. In the *Reports* tab, right-click on *Reports* in the tree menu. Under the *Folder* heading, select *Create New*. Under the *Folder* heading, select *Create New*.
2. In the *Create New Folder* dialog box, enter a name for the folder, and select *OK*.  
A new folder is created with the given name.

**To rename a report folder:**

1. Right-click on the report folder that you need to rename in the tree menu.
2. Under the *Folder* heading, select *Rename*.
3. In the *Rename Folder* dialog box, enter a new name for the folder, and select *OK*.

### To delete a report folder:

1. Right-click on the report folder that you would like to delete in the tree menu, and select *Delete* under the *Folder* heading.
2. In the confirmation dialog box, select *OK* to delete the report folder.

## Configuration tab

In FortiAnalyzer v5.2.0 and later, the Reports tab layout has changed. When creating a new report, the *Configuration* tab is the first tab that is displayed. In this tab you can configure the time period, select devices, enable schedules, and enable notification.

Report schedules provide a way to schedule an hourly, daily, weekly, or monthly report so that the report will be generated at a specific time. You can also manually run a report schedule at any time, and enable or disable report schedules. Report schedules can also be edited and disabled from the *Report Calendar*. See [Report layouts on page 195](#) for more information.

The screenshot shows the 'Configuration' tab of the FortiAnalyzer Reports interface. It includes sections for 'Time Period' (with 'Other' selected and date/time pickers), 'Devices' (with 'Specify' selected and a list of devices), 'Type' (with 'Single Report (Group Report)' selected), 'Enable Schedule' (with frequency, start, and end settings), and 'Enable Notification' (with an output profile). An 'Apply' button is located at the bottom right of the configuration area.

The following settings are available in the *Configuration* tab:

<b>Time Period</b>	The time period that the report will cover. Select a time period, or select <i>Other</i> to manually specify the start and end date and time.
<b>Devices</b>	The devices that the report will include. Select either <i>All Devices</i> or <i>Specify</i> to add specific devices. Select the add icon to select devices.
<b>User or IP</b>	Enter the user name or the IP address of the user on whom the report will be based. This field is only available for the three predefined report templates in the <i>Detailed User Report</i> folder.
<b>Type</b>	Select either <i>Single Report (Group Report)</i> or <i>Multiple Reports (Per-Device)</i> . This option is only available if multiple devices are selected.
<b>Enable Schedule</b>	Select to enable report template schedules.

<b>Generate PDF Report Every</b>	Select when the report is generated. Enter a number for the frequency of the report based on the time period selected from the drop-down list.
<b>Starts On</b>	Enter a starting date and time for the file generation.
<b>Ends</b>	Enter an ending date and time for the file generation, or set it for never ending.
<b>Enable Notification</b>	Select to enable report notification.
<b>Output Profile</b>	Select the output profile from the drop-down list, or select <i>Create New</i> to create a new output profile. See <a href="#">Output profile on page 214</a> .

## How auto-cache works

When you generate a report, it can take days to assemble the required dataset and produce the report, depending on the required datasets. Instead of assembling datasets at the time of report generation, you can enable the *auto-cache* feature for the report.

Auto-cache is a setting that tells the system to automatically generate *hcache*. Hcache stands for "hard cache", which means the cache stays on disk in the form of database tables instead of memory. Hcache is applied to "matured" database tables. When a database table rolls, it becomes "mature", meaning the table will not grow anymore. Therefore, it is unnecessary to query this database table each time the same SQL query comes. This is when hcache comes into play. Hcache runs queries on matured database tables in advance and caches the interim results of each query. When it is time to generate the report, much of the datasets are already assembled, and the system only needs to merge the results from hcaches. This reduces report generation time significantly.

However, the auto-cache process uses system resources to assemble and cache the datasets. Also, it takes extra space to save the query results. You should only enable auto-cache for reports that require a long time to assemble datasets.

## Grouping reports

If you are running a large number of reports which are very similar, you can significantly reduce report generation time by grouping the reports. Report grouping can reduce the number of hcache tables and thus auto-hcache completion time.

### Step 1: Configure report grouping

To group reports in ADOM *root* that have string `Security_Report` in their titles by device, enter the following CLI commands:

```
config system report group
edit 0
set adom root
config group-by
edit devid
next
edit vd
next
end
set report-like Security_Report
```

```
next
end
```

Notes:

1. The `report-like` field is the name pattern of the report that will utilize the `report-group` feature. This string is case-sensitive.
2. The `group-by` value controls how cache tables are grouped.
3. To view a list of reports that have been included in the grouping, enter the following CLI command:

```
execute sql-report list-schedule <ADOM>
```

## Step 2: Initiate a rebuild of hcache tables

To initiate a rebuild of hcache tables for a specific time period, enter the following CLI command:

```
diagnose sql rebuild-report-hcache <start-time> <end-time>
```

Where `<start-time>` and `<end-time>` follow this format: `<yyyy-mm-dd hh:mm:ss>`.

## Advanced settings tab

After configuring the report configuration, select the *Advanced Settings* tab. In this tab you can configure report filters, LDAP query, and other advanced settings. In the filters section of the *Configuration* tab, you can create and apply log message filters, and add an LDAP query to the report. The *Advanced Settings* section allows you to configure language and print options, and other settings. In this section of the report, you can configure report language, print and customize the cover page, print the table of contents, print a device list, and obfuscate users.

The screenshot shows the 'Advanced Settings' tab in a web interface. At the top, there are four tabs: 'View Report', 'Configuration', 'Advanced Settings' (which is active), and 'Layout'. Below the tabs, the 'Filters' section is visible, with options to 'Log messages that match' (All or Any of the following conditions). There are three filter rules defined: 'User (user)' equal to 'admin', 'user1', 'user2'; 'Destination Interface (dintf)' equal to 'port1', 'port2'; and 'Host Name (hostname)' equal to an empty field. Below the filters, there is an 'LDAP Query' section with 'LDAP Server' set to 'None' and 'Case Change' set to 'Disable'. The 'Advanced Settings' section includes options for 'Language' (Default), 'Layout Header' (checked), 'Header Text' (empty), 'Header Image' (Choose... fortinet\_logo.png), 'Layout Footer' (checked), 'Print Cover Page' (checked, with a 'Customize' button), 'Print Table of Contents' (checked), 'Print Device List' (checked, with a 'Compact' dropdown), 'Obfuscate User' (checked), 'Resolve Hostname' (checked), 'Allow save maximum' (99 Reports(1-1000)), and 'Color Code' (Bold Red). An 'Apply' button is at the bottom right.

The following settings are available in the *Advanced Settings* tab:

### Filters

In the filters section of the *Configuration* tab, you can create and apply log message filters, and add an LDAP query to the report.

<b>Log messages that match</b>	Select <i>All</i> to filter log messages based on all of the added conditions, or select <i>Any of the following conditions</i> to filter log messages based on any one of the conditions.
<b>Add Filter</b>	Select to add filters. For each filter, select the field, and operator from the drop-down lists, then enter or select the values as applicable. Filters vary based on device type.
<b>LDAP Query</b>	Select to add an LDAP query, then select the LDAP server and the case change value from the drop-down lists.
<b>Advanced Settings</b>	Configure advanced report settings.
<b>Language</b>	Select the report language. Select one of the following: <i>Default, English, French, Japanese, Korean, Portuguese, Simplified_Chinese, Spanish, or Traditional_Chinese</i> .
<b>Layout Header</b>	Enter header text and select the header image. The default image is <i>fortinet_logo.png</i> .
<b>Layout Footer</b>	Select either a default footer or custom footer. When selecting <i>Custom</i> , enter the footer text in the text field.
<b>Print Cover Page</b>	Select to print the report cover page. Select <i>Customize</i> to customize the cover page.
<b>Print Table of Contents</b>	Select to include a table of contents.
<b>Print Device List</b>	Select to print the device list. Select <i>Compact, Count, or Detailed</i> from the drop-down list.
<b>Print Report Filters</b>	Select to print the filters applied to the report.
<b>Obfuscate User</b>	Select to hide user information in the report.
<b>Resolve Host-name</b>	Select to resolve hostnames in the report. The default status is enabled.
<b>Allow save maximum</b>	Select a value between 1-1000 for the maximum number of reports to save.
<b>Color Code</b>	The color used to identify the report on the calendar. Select a color code from the drop-down list to apply to the report schedule. Color options include: <i>Bold Blue, Blue, Turquoise, Green, Bold Green, Yellow, Orange, Red, Bold Red, Purple, and Gray</i> .



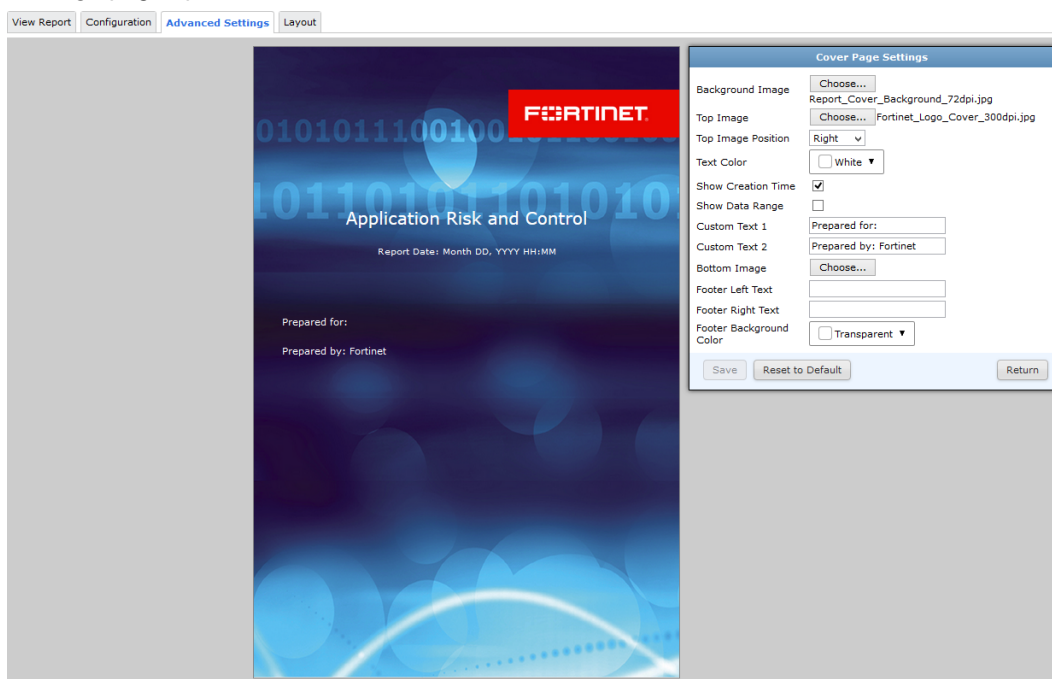
## Report cover pages

The report cover page is only included in the report when enabled in the *Advanced Settings* menu in the *Advanced Settings* tab. See [Advanced settings tab on page 191](#).

When enabled, the cover page can be edited to contain the desired information and imagery.

### To edit cover page settings:

1. In the *Reports* tab, select the report in the tree menu whose cover page you are editing, then select the *Advanced Settings* tab.
2. In the *Advanced Settings* section, select *Customize* next to the *Print Cover Page* option. The *Cover Page Settings* page opens.



3. Configure the following settings:

<b>Background Image</b>	Select <i>Choose</i> to open the <i>Choose a graphic</i> dialog box. Select an image, or select <i>Upload</i> to find an image on the management computer, then select <i>OK</i> to add the image as the background image of the cover page.
<b>Top Image</b>	Select <i>Choose</i> to open the <i>Choose a graphic</i> dialog box. Select an image, or select <i>Upload</i> to find an image on the management computer, then select <i>OK</i> to add the image at the top of the cover page.
<b>Top Image Position</b>	Select the top image position from the drop-down menu. Select one of the following: <i>Right</i> , <i>Center</i> , <i>Left</i> .

<b>Text Color</b>	Select the text color from the drop-down menu. Select one of the following: Black, Bold Blue, Blue, Turquoise, Green, Bold Green, Yellow, Orange, Red, Bold Red, Purple, White, Gray.
<b>Show Creation Time</b>	Select to print the report date on the cover page.
<b>Show Data Range</b>	Select to print the data range on the cover page.
<b>Custom Text 1</b>	Enter custom text for the <i>Custom Text 1</i> field.
<b>Custom Text 2</b>	Enter custom text for the <i>Custom Text 2</i> field.
<b>Bottom Image</b>	Select <i>Choose</i> to open the <i>Choose a graphic</i> dialog box. Select an image, or select <i>Upload</i> to find an image on the management computer, then select <i>OK</i> to add the image at the bottom of the cover page.
<b>Footer Left Text</b>	Edit the text printed in the left hand footer of the cover page.
<b>Footer Right Text</b>	Edit the text printed in the left hand footer of the cover page. {default} prints the report creation date and time.
<b>Footer Background Color</b>	Select the cover page footer background color from the drop-down list. Select one of the following: <i>Black, Bold Blue, Blue, Turquoise, Green, Bold Green, Yellow, Orange, Red, Bold Red, Purple, White, Gray, Transparent.</i>
<b>Reset to Default</b>	Select to reset the cover page settings to their default settings.

4. Select *Save* in the toolbar, to save your changes.
5. Select *Return* in the toolbar, to return to *Advanced Settings* tab.

## View report tab

A report can be manually run at any time by selecting *Run Report Now*.

Completed reports are displayed in the *View Report* tab of the *Reports* tab. The report name, available formats, and completion time or status are shown in the table. Reports can be viewed in HTML or as PDFs.

The toolbar and the right-click menu provide options to delete or download the selected reports, as well as to run the report.

Completed reports can be viewed for specific devices from the *Device Manager* tab.

Completed reports can also be downloaded and deleted from the *Report Calendar* page. See [Report calendar on page 209](#).

The following options are available:

<b>Report Name</b>	The name of the report. Click the column header to sort entries in the table by report name.
--------------------	---

<b>Format</b>	Select <i>HTML</i> to open the report in HTML format in a new web browser tab or window, depending on your browser settings. Select <i>PDF</i> to open or download the report in PDF format.
<b>Completion Time/Status</b>	The completion status of the report, or, if the report is complete, the data, and time (including time zone) that the report completed. Click the column header to sort entries in the table by completion time.

Right-click on an report in the list to open the right-click menu. The following options are available:

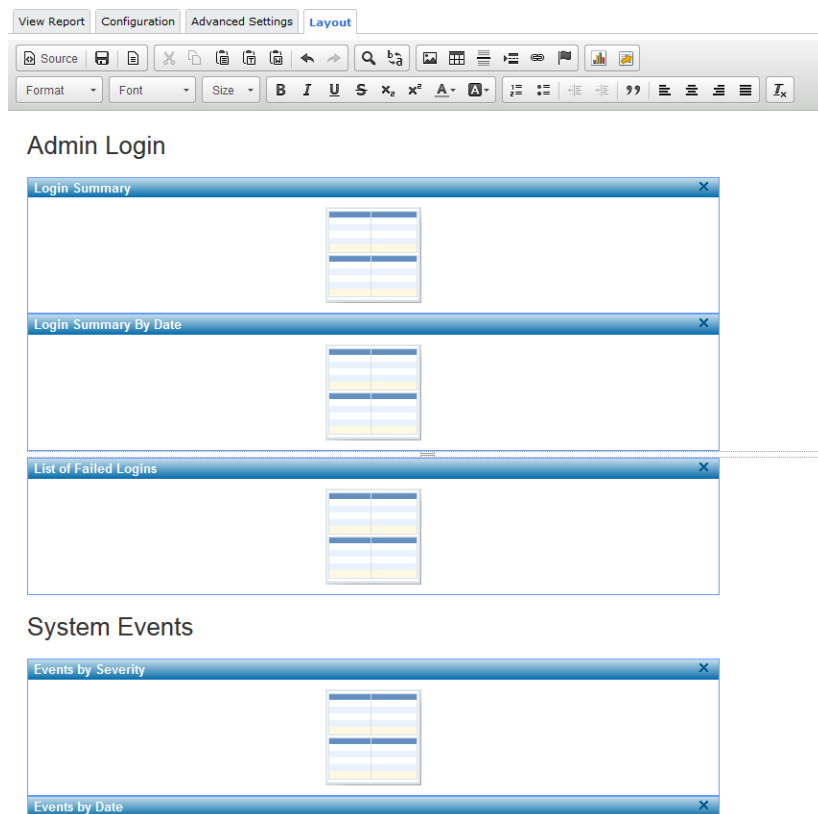
<b>Run Report Now</b>	Select to run the report now.
<b>Delete</b>	Select one or more reports in the completed reports list, then select <i>Delete</i> from the toolbar or right-click menu. Select <i>OK</i> in the confirmation dialog box to delete the selected report or reports.
<b>Download</b>	Select one reports in the completed reports list, then select <i>Download</i> from the toolbar or right-click menu to download the selected report or reports. Each report will be saved individually as a PDF file on the management computer. Reports that are not done cannot be downloaded.

#### To view device reports:

1. In the *Device Manager* tab, select the ADOM that contains the device whose report you would like to view, and select the device. You can select to view reports by device or by VDOM. All of the reports that have been run for the selected device are shown in the left content pane.
2. Select a format from the *Format* column to open the report in that format in a new browser window or tab.
3. Select a report, then select *Download* from the right-click menu to download the selected report.
4. Select one or more reports, then select *Delete* to delete the selected reports.

## Report layouts

In the *Layout* tab, you can configure report template layout. Various content can be added to a report template, such as charts, images, and typographic elements, using the layout toolbar. The template color scheme, fonts, and layout can be controlled, and all the report elements can be edited and customized as needed.



Because the cut, copy and paste functions need access to the clipboard of your operating system, some Internet browsers either block it when called from layout editor toolbar, or ask you to explicitly agree to that. Should accessing the clipboard by clicking the respective cut, copy and paste buttons from toolbar or context menu options be blocked, you can always perform these operations with keyboard shortcuts.

The following options are available in the layout editor:

<b>Source</b>	Select to view and configure the report layout in XML format.
<b>Save</b>	Select to save changes to the report layout.
<b>Templates</b>	<p>Select to choose the template to open in the editor. Select one of the following:</p> <ul style="list-style-type: none"> <li>Image and Title: One main image with a title and text that surround the image.</li> <li>Strange Template: A template that defines two columns, each one with a different title, and some text.</li> <li>Text and Table: A title with some text and a table.</li> </ul> <p>You can select to replace actual contents.</p>

<b>Cut</b>	<p>To cut a text fragment, start with selecting it. When the text is selected, you can cut it using one of the following methods:</p> <ul style="list-style-type: none"> <li>• Select the cut button in the toolbar</li> <li>• Right-click and select cut in the menu</li> <li>• Use the <i>Ctrl+X</i> shortcut on your keyboard.</li> </ul>
<b>Copy</b>	<p>To cut a text fragment, start with selecting it. When the text is selected, you can cut it using one of the following methods:</p> <ul style="list-style-type: none"> <li>• Select the cut button in the toolbar</li> <li>• Right-click and select cut in the menu</li> <li>• Use the <i>Ctrl+C</i> shortcut on your keyboard.</li> </ul>
<b>Paste</b>	<p>To paste a text fragment, start with cutting it or copying from another source. Depending on the security settings of your browser, you may either paste directly from the clipboard or use <i>Paste</i> dialog window.</p>
<b>Paste as plain text</b>	<p>If you want to paste an already formatted text, but without preserving the formatting, you can paste it as plain text. To achieve this, copy the formatted text and select the <i>Paste as plain text</i> button in the toolbar. If the browser blocks the editor toolbar's access to clipboard, a <i>Paste as Plain Text</i> dialog window will appear and you will be asked to paste the fragment into the text box using the <i>Ctrl+V</i> keyboard shortcut.</p>
<b>Paste from Word</b>	<p>You can preserve basic formatting when you paste a text fragment from Microsoft Word. To achieve this, copy the text in a Word document and paste it using one of the following methods:</p> <ul style="list-style-type: none"> <li>• Select the Paste from Word button in the toolbar</li> <li>• Use the <i>Ctrl+V</i> shortcut on your keyboard.</li> </ul>
<b>Undo</b>	<p>Select to undo the last action. Alternatively, use the <i>Ctrl+Z</i> keyboard shortcut to perform the undo operation.</p>
<b>Redo</b>	<p>Select to redo the last action. Alternatively, use the <i>Ctrl+Y</i> keyboard shortcut to perform the redo operation.</p>
<b>Find</b>	<p>Select to find text in the report layout editor. Find consists of the following elements:</p> <ul style="list-style-type: none"> <li>• Find what: Is the text field where you enter the word or phrase that you want to find.</li> <li>• Match case: Checking this option limits the search operation to words whose case matches the spelling (uppercase and lowercase letters) given in the search field. This means that the search becomes case-sensitive.</li> <li>• Match whole word: Checking this option limits the search operation to whole words.</li> <li>• Match cyclic: Checking this option means that after editor reaches the end of the document, the search continues from the beginning of the text. This option is checked by default.</li> </ul>

<b>Replace</b>	<p>Select to replace text in the report layout editor. Replace consists of the following elements:</p> <ul style="list-style-type: none"> <li>• <b>Find what:</b> Is the text field where you enter the word or phrase that you want to find.</li> <li>• <b>Replace with:</b> Is the text field where you enter the word or phrase that will replace the search term in the document.</li> <li>• <b>Match case:</b> Checking this option limits the search operation to words whose case matches the spelling (uppercase and lowercase letters) given in the search field. This means that the search becomes case-sensitive.</li> <li>• <b>Match whole word:</b> Checking this option limits the search operation to whole words.</li> <li>• <b>Match cyclic:</b> Checking this option means that after editor reaches the end of the document, the search continues from the beginning of the text. This option is checked by default.</li> </ul>
<b>Image</b>	Select the <i>Image</i> button in the toolbar to insert an image into the report layout. Right-click an existing image to edit image properties.
<b>Table</b>	Select the <i>Table</i> button in the toolbar to insert a table into the report layout. Right-click an existing table to edit a cell, row, column, table properties or delete the table.
<b>Insert Horizontal Line</b>	Select to insert a horizontal line.
<b>Insert Page Break for Printing</b>	Select to insert a page break for printing.
<b>Link</b>	Select the <i>Link</i> button in the toolbar to open the <i>Link</i> dialog window. You can select to insert a URL, a link to an anchor in the text, or an email address. Alternatively, use the <b>Ctrl+L</b> keyboard shortcut to open the <i>Link</i> dialog window. See <a href="#">Link on page 202</a> for more information.
<b>Anchor</b>	Select the <i>Anchor</i> button in the toolbar to insert an anchor in the report layout.
<b>FortiAnalyzer Chart</b>	Select to insert a FortiAnalyzer chart. See <a href="#">Charts on page 203</a> for more information.
<b>FortiAnalyzer Macro</b>	Select to insert a FortiAnalyzer macro. See <a href="#">Macros on page 204</a> for more information.
<b>Paragraph Format</b>	Select the paragraph format from the drop-down list. Select one of the following: Normal, Heading 1, Heading 2, Heading 3, Heading 4, Heading 5, Heading 6, Formatted, or Address.

<b>Font Name</b>	Select the font from the drop-down list. Select one of the following: Arial, Comic Sans MS, Courier New, Georgia, Lucida Sans Unicode, Tahoma, Times New Roman, Trebuchet MS, or Verdana.
<b>Font Size</b>	Select the font size from the drop-down list. Select a size ranging from 8 to 72.
<b>Bold</b>	Select the text fragment and then select the <i><b>Bold</b></i> button in the toolbar. Alternatively, use the <i>Ctrl+B</i> keyboard shortcut to apply bold formatting to a text fragment.
<b>Italic</b>	Select the text fragment and then select the <i>Italic</i> button in the toolbar. Alternatively, use the <i>Ctrl+I</i> keyboard shortcut to apply italics formatting to a text fragment.
<b>Underline</b>	Select the text fragment and then select the <i>Underline</i> button in the toolbar. Alternatively, use the <i>Ctrl+U</i> keyboard shortcut to apply underline formatting to a text fragment.
<b>Strike Through</b>	Select the text fragment and then select the <i>Strike Through</i> button in the toolbar.
<b>Subscript</b>	Select the text fragment and then select the <i>Subscript</i> button in the toolbar.
<b>Superscript</b>	Select the text fragment and then select the <i>Superscript</i> button in the toolbar.
<b>Text Color</b>	<p>You can change the color of text in the report by using a color palette. To choose a color, select a text fragment and press the <i>Text Color</i> toolbar button. The <i>Text Color</i> drop-down menu that will open lets you select a color from a basic palette of 40 shades.</p> <p>If the color that you are after is not included in the basic palette, click the <i>More Colors</i> option in the drop-down menu. The <i>Select Color</i> dialog window that will open lets you choose a color from an extended palette.</p>
<b>Background Color</b>	You can also change the color of the text background.
<b>Insert/Remove Numbered List</b>	Select to insert or remove a numbered list.
<b>Insert/Remove Bulleted List</b>	Select to insert or remove a bulleted list.
<b>Decrease Indent</b>	To decrease the indentation of the element, select the <i>Decrease Indent</i> toolbar button. The indentation of a block-level element containing the cursor will decrease by one tabulator length.

<b>Increase Indent</b>	To increase the indentation of the element, select the <i>Increase Indent</i> toolbar button. The block-level element containing the cursor will be indented with one tabulator length.
<b>Block Quote</b>	Block quote is used for longer quotations that are distinguished from the main text by left and right indentation. It is recommended to use this type of formatting when the quoted text consists of several lines or at least 100 words.
<b>Align Left</b>	When you align your text left, the paragraph is aligned with the left margin and the text is ragged on the right side. This is usually the default text alignment setting for the languages with left to right direction.
<b>Center</b>	When you center your text, the paragraph is aligned symmetrically along the vertical axis and the text is ragged on the both sides. This setting is often used in titles or table cells.
<b>Align Right</b>	When you align your text right, the paragraph is aligned with the right margin and the text is ragged on the left side. This is usually the default text alignment setting for the languages with right to left direction.
<b>Justify</b>	When you justify your text, the paragraph is aligned with both left and right margin; the text is not ragged on any side. Instead of this, additional spacing is realized through flexible amount of space between letters and words that can stretch or contract according to the needs.
<b>Remove Format</b>	Select to remove formatting.

The following options are available in the right-click menu:

<b>Cut</b>	Select text or a report element, right-click and select cut in the menu.
<b>Copy</b>	Select text or a report element, right-click and select copy in the menu.
<b>Paste</b>	Select a location in the report layout, right-click and select paste in the menu.
<b>Cell</b>	Right-click a table in the layout and select to edit cell settings including: inserting cells, deleting cells, merge, split, and cell properties.
<b>Row</b>	Right-click a table in the layout and select to edit row settings including: inserting rows and deleting rows.
<b>Column</b>	Right-click a table in the layout and select to edit column settings including: inserting columns and deleting columns.
<b>Delete Table</b>	Right-click a table in the layout and select to delete the table.



<b>Chart Properties</b>	Right-click a chart in the layout to edit the chart properties including: chart selection, title, width, and filters.
<b>Table Properties</b>	Right-click a table in the layout to edit the table properties including the following: rows, width, columns, height, headers, cell spacing, border size, cell padding, alignment, caption, and summary.
<b>Image Properties</b>	Right-click an image in the layout to edit the image properties including: image selection, width, height, lock ratio, reset size, and alternative text.
<b>Macro Properties</b>	Right-click a macro in the layout to edit the macro.
<b>Edit Link</b>	Right-click a link in the layout to edit the link properties including: link type, protocol, and URL.
<b>Unlink</b>	Right-click a link in the layout and select to remove the link.
<b>Edit Anchor</b>	Right-click an anchor in the layout and select to edit anchor properties.
<b>Remove Anchor</b>	Right-click an anchor in the layout and select to remove the anchor.

## Inserting images

To insert an image in the report layout, select the *Image* button in the toolbar. The *Image Properties* dialog window opens and you can set configuration options that define image source, its size, display properties, and other advanced properties.

The following options are available:

<b>Browse</b>	Select and browse to the image you want to insert into the report layout.
<b>Width</b>	Enter the width of the image in pixels.
<b>Height</b>	Enter the height of the image in pixels.
<b>Lock Ratio</b>	Select to lock the ratio.
<b>Reset Size</b>	Select to reset the size.
<b>Alternative Text</b>	Enter a short textual description of the image that tells users with assistive devices (like screen readers) what the image is about.

## Creating a table

To create a table in the report layout, select the *Table* button in the toolbar. The *Table Properties* dialog window opens and you can set configuration options that define table size, its display properties, and other advanced properties.

The following options are available:

<b>Rows</b>	Enter the number of rows in the table.
<b>Width</b>	Enter the width of the table in pixels or a percent value
<b>Columns</b>	Enter the number of columns in the table.
<b>Height</b>	Enter the height of the table in pixels.
<b>Headers</b>	Select the header from the drop-down list. Select one of: None, First Row, First Column, Both.
<b>Cell spacing</b>	Enter a value for the space between individual cells as well as cells and table borders, in pixels.
<b>Border size</b>	Enter a value for the thickness of the table border in pixels.
<b>Cell padding</b>	Enter a value for the space between the cell border and its contents, in pixels.
<b>Alignment</b>	Select the alignment from the drop-down list. Select one of: Left, Center, Right.
<b>Caption</b>	Enter the label of the table that will displayed at the top of the table.
<b>Summary</b>	Enter a short textual summary of the table that tells users with assistive devices (like screen readers) what the table is about.

## Link

Select the *Link* button in the toolbar to open the *Link* dialog window. You can select to insert a URL, a link to an anchor in the text, or an email address.

The following options are available:

<b>Link Type</b>	Select the link type from the drop-down list. Select one of: URL, Link to anchor in text, E-mail.
<b>URL</b>	Select the protocol (http://, https://, ftp://, news://, <other>) and enter the URL in text field.
<b>Link to anchor in text</b>	Select an anchor by anchor name or by element ID.
<b>E-mail</b>	Enter the email address, message subject, and message body.

## Anchor

1. Select the *Anchor* button in the toolbar. The *Anchor Properties* dialog windows will appear. Enter an anchor name in the text field. Once you select *OK*, an anchor icon will appear in the report layout. You can then create a link to

the anchor by select the *Link* button.

2. Right-click an anchor to edit or delete the anchor.

## Charts

Chart elements can be placed in the report template. The chart content can be filtered, and the chart content can be edited.

### To add a chart:

1. Click the FortiAnalyzer chart icon. The *Chart Properties* dialog box will open.

2. The following options are available:

<b>Chart</b>	Select the chart from the drop-down list. Search for the chart by entering all or part of the chart name into the <i>Search</i> field.
<b>Title</b>	Optionally, change the chart title.
<b>Width</b>	Select the chart width. Type a value between 280 and 720.
<b>Filters</b>	Select to add filters. For each filter, select the field, and operator from the drop-down lists, then enter or select the values as applicable. Filters vary based on device type.

3. Select *OK* once you have found and selected the chart you would like to add.  
The chart's placeholder will appear. You can drag-and-drop the chart to a new location in the report layout.

### To add additional chart filters:

1. Select the chart, right-click, and select *Chart Properties* in the menu. Alternatively, double-click on the chart. The *Chart Properties* dialog box will open.
2. Add charts filters to the chart as needed.
3. Select *OK* to apply the filters to the chart and return to the report layout page.

### To edit a chart:

1. Select the chart, right-click, and select *Chart Properties* in the menu. Alternatively, double-click on the chart. The *Chart Properties* dialog box will open.

2. Edit the chart as needed.
3. Select *OK* to apply your changes.

## Macros

FortiAnalyzer macro elements can be added to the report template. Select the Macro button in the toolbar and select the macro from the drop-down list. Right-click an existing macro to open macro properties.

## Chart library

The FortiAnalyzer unit provides a selection of predefined charts. New charts can be created using by cloning and editing an existing chart, or by using the advanced chart creation option. You can select to display predefined chart, custom charts, or both.

To view a listing of the available predefined charts, see [Appendix A - Charts, Datasets, & Macros on page 217](#).

For advanced users, right-click the right content pane and select *Create New* to create SQL based charts. See [Managing charts on page 205](#).

Charts are predefined to show specific information in an appropriate format, such as pie charts or tables. They are organized into categories, and can be added to, removed from, and organized in reports.

To view the chart library, go to *Reports > Chart Library*.

The following information is displayed:

<b>Name</b>	The name of the chart. Click the column header to sort entries in the table by name.
<b>Description</b>	The chart description. Click the column header to sort entries in the table by description.
<b>Category</b>	The chart category. Click the column header to sort entries in the table by category.
<b>Search</b>	Enter a search term in the search field to find a specific chart.
<b>Pagination</b>	Adjust the number of entries that are listed per page and browse through the pages.

The following options are available in the toolbar:

<b>Create New</b>	Create a new chart. For FortiGate and FortiCarrier ADOMs, this option is only available from the right-click menu.
<b>Edit</b>	Select to edit a chart. This option is only available for custom charts.
<b>View</b>	Select to view chart details. This option is only available for predefined charts, as they cannot be edited.

<b>Delete</b>	Select to delete a chart. This option is only available for custom charts.
<b>Clone</b>	Select to clone an existing chart.
<b>Show Predefined</b>	Select to display predefined charts.
<b>Show Custom</b>	Select to display custom charts.

## Managing charts

Predefined charts can be viewed and cloned. Custom charts can be created, edited, cloned, and deleted.

### To create a new chart:

- In the chart library:
  - If you are creating a chart in a FortiGate or FortiCarrier ADOM: right-click in the content pane and select *Create New*.
  - If you are creating a chart in any other ADOM: select *Create New* in the toolbar.

The *New Chart* dialog box opens.

- Select the *Tutorial* icon to view the online chart creation video.
- Enter the required information for the new chart.

<b>Name</b>	Enter a name for the chart.
<b>Description</b>	Enter a description of the chart.
<b>Dataset</b>	Select a dataset from the drop-down list. See <a href="#">Dataset on page 211</a> for more information. The options will vary based on device type.
<b>Graph Type</b>	Select a graph type from the drop-down list; one of: <i>table</i> , <i>bar</i> , <i>pie</i> , or <i>line</i> . This selection will affect the rest of the available selections.

<b>Line Subtype</b>	Select one of the following options: <i>basic</i> , <i>stacked</i> , or <i>back-to-back</i> . This option is only available when creating a line graph.
<b>Resolve Hostname</b>	Select to resolve the hostname. Select one of the following: <i>Inherit</i> , <i>Enabled</i> , or <i>Disabled</i> .
<b>Data Bindings</b>	The data bindings vary depending on the chart type selected.
<b>bar, pie, or line graphs</b>	
<b>X-Axis</b>	<p><i>Data Binding</i>: Select a value from the drop-down list. The available options will vary depending on the selected dataset.</p> <p><i>Only Show First</i>: Enter a numerical value. Only the first 'X' items will be displayed. Other items are bundled into the <i>Others</i> category.</p> <p><i>Overwrite label</i>: Enter a label for the axis.</p>
<b>Y-axis</b>	<p><i>Data Binding</i>: Select a value from the drop-down list. The available options will vary depending on the selected dataset.</p> <p><i>Overwrite label</i>: Enter a label for the axis.</p> <p><i>Group by</i>: Select a value from the drop-down list. The available options will vary depending on the selected dataset. This option is only available when creating a bar graph.</p>
<b>Order By</b>	Select to order by the X-Axis or Y-Axis. This option is only available when creating a line or bar graph.
<b>table</b>	
<b>Only Show First Items</b>	Enter a numerical value. Only the first 'X' items will be displayed. Other items are bundled into the Others category. This option is available for all columns when Data Type is set to raw. When Data Type is set to ranked, this option is available in Column 1.
<b>Data Type</b>	Select either <i>ranked</i> or <i>raw</i> .
<b>Add Column</b>	Select add column icon to add a column.
<b>Columns</b>	<p>Up to fifteen columns can be added. The following column settings must be set:</p> <ul style="list-style-type: none"> <li>• <i>Header</i>: Enter header information.</li> <li>• <i>Data Binding</i>: Select a value from the drop-down list. The options vary depending on the selected dataset.</li> <li>• <i>Display</i>: Select a value from the drop-down list.</li> <li>• <i>Merge Columns</i>: Select a value from the drop-down list. This option is only available when <i>Data Type</i> is <i>raw</i>. If applicable, enter a <i>Merge Header</i>.</li> <li>• <i>Order by this column</i>: Select to order the table by this column. This option is only available in <i>Column 1</i> when <i>Data Type</i> is <i>ranked</i>.</li> </ul>

4. Select **OK** to create the new chart.

**To clone a chart:**

1. In the chart library, select the chart that you would like to clone and select *Clone* from either the toolbar or right-click menu. The *Clone Chart* dialog box opens.
2. Edit the information as needed, then select *OK* to clone the chart.

**To edit a chart:**

1. In the chart library, double-click on the custom chart you need to edit, or select the chart then select *Edit* from either the toolbar or right-click menu. The *Edit Chart* dialog box opens.
2. Edit the information as required, then select *OK* to finish editing the chart.



Predefined charts cannot be edited, the information is read-only. A predefined chart can be cloned, and changes can then be made to said clone.

**To delete charts:**

1. In the chart library, select the custom chart or charts that you would like to delete and select *Delete* from either the toolbar or right-click menu.
2. Select *OK* in the confirmation dialog box to delete the chart or charts.



Predefined charts cannot be deleted.

## Macro library

The FortiAnalyzer unit provides a selection of predefined macros. You can create new macros and clone existing macros. You can select to display predefined macros, custom macros, or both.

To view a listing of the available predefined macros, see [Appendix A - Charts, Datasets, & Macros on page 217](#).

Macros are predefined to use specific datasets and queries. They are organized into categories, and can be added to, removed from, and organized in reports.



Macros are currently supported in FortiGate and FortiCarrier ADOMs only.

To view the macro library, go to *Reports > Macro Library*.

The following information is available:

<b>Name</b>	The name of the macro.
<b>Description</b>	The macro description.
<b>Category</b>	The macro category.

<b>Pagination</b>	Adjust the number of entries that are listed per page and browse through the pages.
-------------------	---

The following options are available in the toolbar:

<b>Create New</b>	Create a new macro. This option is only available from the right-click menu.
<b>Edit</b>	Select to edit a macro. This option is only available for custom macros.
<b>View</b>	Select to view macro details. This option is only available for predefined macros, as they cannot be edited.
<b>Delete</b>	Select to delete a macro. This option is only available for custom macros.
<b>Clone</b>	Select to clone an existing macro.
<b>Show Predefined</b>	Select to display predefined macros.
<b>Show Custom</b>	Select to display custom macros.
<b>Search</b>	Enter a search term in the search field to find a specific macros.

## Managing macros

Predefined macros can be viewed and cloned. Custom macros can be created, edited, cloned, and deleted. You can insert macros into text elements in the report layout.

### To create a new macro:

1. In the macro library, select *Create New* in the toolbar or right-click in the content pane and select *Create New*. The *New Macro* dialog box opens.

**New Macro**

Name:

Description:

Dataset:

Query:

Data Binding:

Display:

OK Cancel

2. Enter the required information for the new macro.

<b>Name</b>	Enter a name for the macro.
-------------	-----------------------------



<b>Description</b>	Enter a description of the macro.
<b>Dataset</b>	Select a dataset from the drop-down list. The options will vary based on device type.
<b>Query</b>	Displays the query statement for the dataset selected.
<b>Data Binding</b>	The data bindings vary depending on the dataset selected. Select a data binding from the drop-down list.
<b>Display</b>	Select a value from the drop-down list.

3. Select *OK* to create the new macro.

#### To clone a macro:

1. In the macro library, select the macro that you would like to clone and select *Clone* from either the toolbar or right-click menu. The *Clone Macro* dialog box opens.
2. Edit the information as needed, then select *OK* to clone the macro.

#### To view a predefined macro:

1. In the macro library, double-click on the predefined macro you would like to view, or select the macro then select *View* from either the toolbar or right-click menu. The *View Macro* dialog box opens. All fields are read-only.
2. Select *Close* when you are finished.

#### To edit a macro:

1. In the macro library, double-click on the custom macro you need to edit, or select the macro then select *Edit* from either the toolbar or right-click menu. The *Edit Macro* dialog box opens.
2. Edit the information as required, then select *OK* to finish editing the macro.

#### To delete macros:

1. In the macro library, select the custom macro or macros that you would like to delete and select *Delete* from either the toolbar or right-click menu.
2. Select *OK* in the confirmation dialog box to delete the macro or macros.

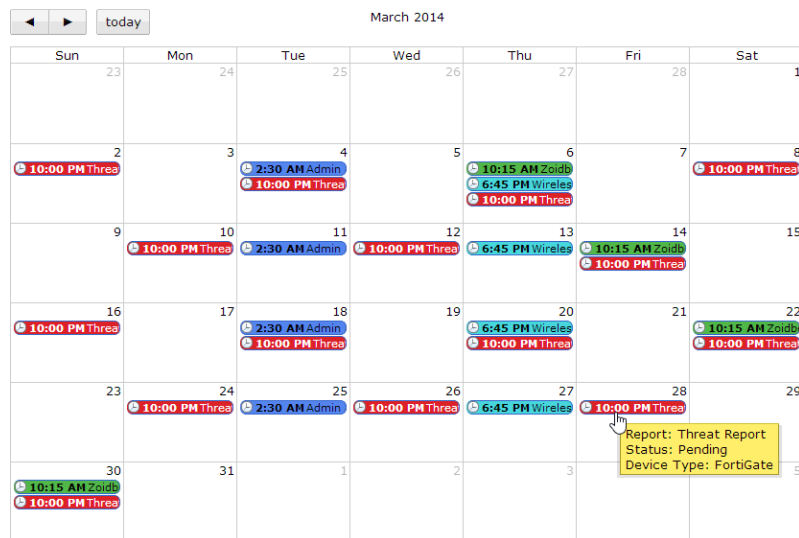


Predefined macros cannot be deleted.

## Report calendar

The report calendar provides an overview of scheduled reports. You can view all reports scheduled for the selected month. From the calendar page, you can edit and disable upcoming reports, and delete or download completed reports.

To view the report calendar, go to *Reports > Report Calendar*.



Hovering the mouse cursor over a scheduled report on the calendar opens a notification box that shows the report's name and status, as well as the device type.

Selecting the left and right arrows at the top of the calendar page will adjust the month that is shown. Select *Today* to return to the current month.

#### To edit a report schedule:

1. Right-click on the scheduled report in the report calendar and select *Edit*. The *Edit Report* window will open.
2. Edit the report settings as required, then select *Apply* to apply the changes.

#### To disable a scheduled report:

1. Right-click the scheduled report and select *Disable* from the right-click menu.
2. In the confirmation box, select *OK*.

Disabling a report will remove all scheduled instances of the report from the report calendar. Completed reports will remain in the report calendar.

#### To delete a scheduled report:

1. Right-click the scheduled report that you would like to delete and select *Delete*. Only scheduled reports that have already been run can be deleted.
2. Select *OK* in the confirmation dialog box to delete the scheduled report.

#### To download a report:

1. Right-click the scheduled report that you would like to download and select *Download*. Only scheduled reports that have already been run can be downloaded.
2. Depending on your web browser and management computer settings, save the file to your computer, or open the file in an applicable program.  
Reports are downloaded as PDF files.

## Advanced

The advanced menu allows you to view, configure and test datasets, create output profiles, and manage report languages.

### Dataset

FortiAnalyzer datasets are collections of log files from monitored devices. Reports are generated based on these datasets.

To view a listing of the available predefined datasets, see [Appendix A - Charts, Datasets, & Macros on page 217](#).

Predefined datasets for each supported device type are provided, and new datasets can be created and configured. Both predefined and custom datasets can be cloned, but only custom datasets can be deleted. You can also view the SQL query for a dataset, and test the query against specific devices or all devices.

To view and configure datasets, go to *Reports > Advanced > Dataset* in the tree menu.

The following information is displayed:

<b>Name</b>	The name of the dataset.
<b>Device Type</b>	The device type that the dataset applies to.
<b>Log Type</b>	The type of log that the dataset applies to.
<b>Pagination</b>	Adjust the number of logs that are listed per page and browse through the pages.

The following options are available in the toolbar:

<b>Create New</b>	Select to create a new dataset.
<b>View</b>	Select to view the dataset. View is only available for pre-defined datasets.
<b>Edit</b>	Select to edit an existing dataset.
<b>Delete</b>	Select to delete a dataset.
<b>Clone</b>	Select to clone an existing dataset.
<b>Search</b>	Use the search field to find a specific dataset.

The following options are available in the right-click menu:

<b>Create New</b>	Select to create a new dataset.
-------------------	---------------------------------

<b>View</b>	Select a dataset, right-click, and select <i>View</i> to view the dataset selected. View is only available for pre-defined datasets.
<b>Delete</b>	Select a custom dataset, right-click, and select <i>Delete</i> to remove the custom dataset. You cannot delete pre-defined datasets.
<b>Clone</b>	Select a custom dataset, right-click, and select <i>Clone</i> to clone the dataset.
<b>Validate</b>	Select a custom dataset, right-click, and select <i>Validate</i> to validate the selected dataset. A validation result dialog box will be displayed with the results.
<b>Validate All Custom</b>	Right-click in the right pane and select <i>Validate All Custom</i> to validate all custom datasets. A validation result dialog box will be displayed with the results.

#### To create a new dataset:

1. In the dataset list, either select *Create New* from the toolbar, or right-click in the dataset list and select *Create New* from the pop-up menu. The *New Dataset* dialog box opens.
2. Enter the required information for the new dataset.

<b>Name</b>	Enter a name for the dataset.
<b>Log Type</b>	<p>Select a log type from the drop-down list.</p> <ul style="list-style-type: none"> <li>• The following log types are available for FortiGate: <i>Application Control, Attack, DLP Archive, DLP, Email Filter, Event, Traffic, Virus, Web Filter, and Network Scan.</i></li> <li>• The following log types are available for FortiMail: <i>Email Filter, Event, History, and Virus.</i></li> <li>• The following log types are available for FortiWeb: <i>Attack, Event, and Traffic.</i></li> </ul>
<b>Query</b>	Enter the SQL query used for the dataset.
<b>Add Variable</b>	Select the add variable icon to add a variable, expression, and description information.
<b>Test query with specified devices and time period</b>	
<b>Devices</b>	Select <i>All Devices</i> or <i>Specify</i> to select specific devices to run the SQL query against. Use the add device icon to add multiple devices to the query.
<b>Time Period</b>	Use the drop-down list to select a time period. When selecting <i>Other</i> , enter the start date, time, end date, and time.
<b>Test</b>	Select <i>Test</i> to test the SQL query before saving the dataset configuration.

3. Test the query to ensure that the dataset functions as expected, then select *OK* to create the new dataset.

**To clone a dataset:**

1. In the dataset list, either select a dataset then select *Clone* from the toolbar, or right-click on the dataset then select *Clone* from the pop-up menu. The *Clone Dataset* dialog box opens.
2. Edit the information as required, then test the query to ensure that the dataset functions as expected.
3. Select *OK* to create a new, cloned dataset.

**To edit a dataset:**

1. In the dataset list double-click on the dataset, or select the dataset then select *Edit* from the toolbar or right-click menu. The *Edit Dataset* dialog box opens.

**Edit Dataset**

Name: New Dataset  
Log Type: Traffic

Query:  

```
select coalesce(nullifna('user'), 'srcip') as user_src,
sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0)) as
bandwidth from $log where $filter and service in ('smtp',
'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') group
by user_src having sum(coalesce(sentbyte,
0)+coalesce(rcvbyte, 0))>0 order by bandwidth desc
```

Add Variable

Variable	Expression	Description	
user			X
user			X
user			X

Test query with specified devices and time period

Devices: ☐ All FortiGate ☒ Specify  
 FG10CH3G09615415

Time Period  
 Start Date: 00 00  
 End Date: 00 00

Test

user_src	bandwidth
10.1.100.166	2518965826
10.1.100.164	2090810715
10.1.100.165	387858846
mike	13817220
Alan	13140085
Meggie	13027679
Kirk	13007240
Lauren	12966641

OK Cancel

2. Edit the information as required, then test the query to ensure that the dataset functions as expected.
3. Select *OK* to finish editing the dataset.



Predefined datasets cannot be edited, the information is read-only. You can view the SQL query and variables used in the dataset and test against specific devices.

**To delete datasets:**

1. Select the dataset or datasets that you would like to delete, then select *Delete* from the toolbar or right-click menu.
2. Select *OK* in the confirmation dialog box to delete the selected datasets or datasets.



Predefined datasets cannot be deleted, the information is read-only.

**To view the SQL query for an existing dataset:**

Hover the mouse cursor over one of the datasets in the dataset list. The SQL query is displayed in a persistent pop-up dialog box.

**To validate a dataset**

We suggest you validate a dataset (especially a custom dataset) before using it in your report.

1. Ensure you are in the correct ADOM, if using ADOMs. Otherwise, skip this step.
2. Go to *Reports > Advanced > Datasets*.
3. Select a dataset, and then click *Validate* in the toolbar.

Validation results are displayed in a dialog box. If any error is detected, you can edit the dataset in the dialog box and then click *Save and Revalidate*.

You can also click *Validate All Custom* in the toolbar to validate all the custom datasets.

## Output profile

Output profiles allow you to define email addresses to which generated reports are sent, and provides an option to upload the reports to FTP, SFTP, or SCP servers. Once created, an output profile can be specified for a report.

To view and manage output profiles, go to *Reports > Advanced > Output Profile*.



You must configure a mail server before you can configure an output profile. See [Mail server on page 115](#).

### To create a new output profile:

1. In the output profile list, select *Create New* from either the toolbar or right-click menu. The *New Output Profile* dialog box opens.

2. Enter the following information:

<b>Name</b>	Enter a name for the new output profile.
<b>Description</b>	Enter a description for the output profile (optional).

<b>Email Generated Reports</b>	Enable email generated reports.
<b>Subject</b>	Enter a subject for the report email.
<b>Body</b>	Enter body text for the report email.
<b>Email Recipients</b>	Select the email server from the drop-down list and enter to and from email addresses. Select <i>Add New</i> to add another entry so that you can specify multiple recipients.
<b>Upload Report to Server</b>	Enable uploading the reports to a server.
<b>Report Format</b>	Select the report format or formats. The options include <i>PDF</i> and <i>HTML</i> .
<b>Server Type</b>	Select <i>FTP</i> , <i>SFTP</i> , or <i>SCP</i> from the drop-down list.
<b>Server</b>	Enter the server IP address.
<b>User</b>	Enter the username.
<b>Password</b>	Enter the password.
<b>Directory</b>	Specify the directory where the report will be saved.
<b>Delete file(s) after uploading</b>	Select to delete the report after it has been uploaded to the selected.

3. Select *OK* to create the new output profile.

#### To edit an output profile:

1. In the output profile list, double-click on the output profile that you would like to edit, or select the output profile and select *Edit* from the toolbar or right-click menu. The *Edit Output Profile* dialog box opens.
2. Edit the information as required, then select *OK* to apply your changes.

#### To delete output profiles:

1. In the output profile list, select the output profile or profiles that you would like to delete, then select *Delete* from the toolbar or right-click menu.
2. Select *OK* in the confirmation dialog box to delete the selected output profile or profiles.

## Language

The language of the reports can be specified when creating a report (see [Advanced settings tab on page 191](#)). New languages can be added, and the name and description of the languages can be changed. The predefined languages cannot be edited.

To view and manage report languages, go to *Reports > Advanced > Language*.

The available, pre-configured report languages include:

English (default report language)	Portuguese
-----------------------------------	------------

French	Simplified Chinese
Japanese	Spanish
Korean	Traditional Chinese

**To add a language:**

1. In the report language list, select *Create New* from the toolbar or right-click menu. The *New Language* dialog box opens.
2. Enter a name and description for the language in the requisite fields.
3. Select *OK* to add the language.



Adding a new language does not create that language. It only adds a placeholder for that language that contains the language name and description.

**To edit a language:**

1. In the report language list, double-click on the language that you would like to edit, or select the language and select *Edit* from the toolbar or right-click menu. The *Edit Language* dialog box opens.
2. Edit the information as required, then select *OK* to apply your changes.



Predefined languages cannot be edited; the information is read-only.

**To delete languages:**

1. In the report language list, select the language or languages that you would like to delete and select *Delete* from the toolbar or right-click menu.
2. Select *OK* in the confirmation dialog box to delete the selected language or languages.



Predefined languages cannot be deleted; the information is read-only.



# Appendix A - Charts, Datasets, & Macros

- [FortiGate](#)
- [FortiMail](#)
- [FortiWeb](#)
- [FortiCache](#)

## FortiGate

### Predefined charts

The following table lists the predefined charts for FortiGate.

Name	Category	Description
Active Traffic Users	Network Usage	List of active traffic users
Admin Login Summary by Date	Event	Administrator login summary by date
Adware Timeline	Threat	Adware timeline
All Antivirus and Antimalware Detections	Threat	All Antivirus and Antimalware Detections
App Categories	Application	Application categories by bandwidth usage
Application Bandwidth Usage	Network Usage	Application bandwidth usage details
Application Behavioral Characteristics	Application	Application Behavioral Characteristics
Application Firewall	Threat	Application Firewall
Application Risk Distribution	Application	Application risk distribution
Application Vulnerability Exploits	Application	Application vulnerabilities discovered on the network
Applications Running over HTTP	Application	Applications running over HTTP protocol
Attack Summary	Threat	Intrusion events summary
Attacks Over HTTP/HTTPs	Threat	Intrusions over HTTP or HTTPs

Name	Category	Description
Bandwidth Summary	Network Usage	Traffic bandwidth usage summary
Botnet Timeline	Network Usage	Botnet timeline
Botnet Victims	Network Usage	Botnet victims
Browsing Time Summary	Web	Browsing time summary
Browsing Time Summary Enhanced	Web	Enhanced browsing time summary
Category Breakdown of Applications by Bandwidth	Application	Category Breakdown of all applications, sorted by Bandwidth
Client Summary	Event	Client Summary
Common Virus Botnet and Spyware and Adware	Application	Common virus discovered, the botnet communications and the spyware/adware
CPU Session Usage	Event	CPU session usage
CPU Usage	Event	CPU usage
Detailed Web Browsing Log	Traffic	Detailed browsing log of web
Detected Botnets	Network Usage	Detected botnets
Detected OS Count	Traffic	Detected operating system count
Device by OS	Event	Device by Operating System
Distribution of SIP Calls by Duration	Other	Distribution of SIP calls by duration
Drilldown Top 20 Applications by Bandwidth	Application	Drilldown top 20 applications by bandwidth usage
Drilldown Top 20 Applications by Bandwidth Bar Chart	Application	Drilldown top 20 applications by bandwidth usage bar chart
Drilldown Top 20 Applications by Sessions	Application	Drilldown top 20 applications by session count
Drilldown Top 20 Applications by Sessions Bar Chart	Application	Drilldown top 20 applications by session count bar chart
Drilldown Top 20 Attack Destination	Threat	Drilldown top 20 attack destinations

Name	Category	Description
Drilldown Top 20 Attack List	Threat	Drilldown top 20 attack list
Drilldown Top 20 Destination by Bandwidth	Network Usage	Drilldown top 20 destination by bandwidth usage
Drilldown Top 20 Destination by Sessions	Network Usage	Drilldown top 20 destination by session count
Drilldown Top 20 Email Receive Sender by Count	Email	Drilldown top 20 email-receive senders by count
Drilldown Top 20 Email Receive Sender by Volume	Email	Drilldown top 20 email-receive senders by volume
Drilldown Top 20 Email Recipient by Count	Email	Drilldown top 20 email recipients by count
Drilldown Top 20 Email Recipient by Volume	Email	Drilldown top 20 email recipients by volume
Drilldown Top 20 Email Send Recipient by Count	Email	Drilldown top 20 email-send recipients by count
Drilldown Top 20 Email Send Recipient by Volume	Email	Drilldown top 20 Email-Send recipients by volume
Drilldown Top 20 Email Sender by Count	Email	Drilldown top 20 email senders by count
Drilldown Top 20 Email Sender by Volume	Email	Drilldown top 20 email senders by volume
Drilldown Top 20 User by Bandwidth	Network Usage	Drilldown top 20 users by bandwidth
Drilldown Top 20 User by Bandwidth Bar Chart	Network Usage	Drilldown top 20 users by bandwidth usage bar chart
Drilldown Top 20 User by Sessions	Network Usage	Drilldown top 20 users by session count
Drilldown Top 20 User by Sessions Bar Chart	Network Usage	Drilldown top 20 users by session count bar chart
Drilldown Top 20 Viruses	Threat	Drilldown top 20 viruses
Drilldown Top 20 Web User by Visits	Web	Drilldown top 20 web users by visits
Drilldown Top 20 Web User by Visits Bar Chart	Web	Drilldown top 20 web users by visits bar chart
Drilldown Top 20 Website by Requests	Web	Drilldown top 20 web sites by requests

Name	Category	Description
Drilldown Top 20 Website by Requests Bar Chart	Web	Drilldown top 20 web sites by requests bar chart
Drilldown Top Attack Source	Threat	Drilldown top attack sources
Drilldown Virus Details	Threat	Drilldown virus details
Endpoint Profile Deployment	Event	Endpoint Profile Deployment
Errors and Alerts	Event	Errors and Alerts
File Transferred by Applications	Application	File transferred by applications on the network
Files Analyzed by FortiCloud Sandbox	Application	Files analyzed by FortiCloud Sandbox
FortiClient Version: Installed	Event	Installed FortiClient Version
High Risk Applications Crossing The Network	Application	Top 20 high risk applications crossing the network
High Risk Apps	Application	Breakdown of high risk applications
Hourly Category and Website Hits	Traffic	Hourly category and website hits
Installed Feature Summary	Event	Installed Feature Summary
Intrusions Timeline	Threat	Intrusions timeline by severity
Key Application Crossing The Network	Application	Top 30 applications crossing the network
Malicious Files Detected by FortiCloud Sandbox	Application	Files detected by FortiCloud Sandbox
Managed AP Summary Pie Chart	Event	Managed wireless access point summary by status pie chart
Memory Usage	Event	Memory usage
Number of Applications by Risk Behaviour	Application	Number of applications by risk behavior
Number of Distinct WiFi Clients	Network Usage	Number of distinct WiFi clients
Number of SCCP Call Registrations by Hour-of-Day	Other	Number of SCCP call registrations by hour of day
Number of SCCP Calls by Status	Other	Number of SCCP calls by status

Name	Category	Description
Number of SIP Call Registrations by Hour-of-Day	Other	Number of SIP call registrations by hour of day
Number of SIP Calls by Status	Other	Number of SIP calls by status
Off-Wire Rogue APs	WiFi	Rogue off-wire wireless access points
SCCP Call Duration by Hour-of-Day	Other	SCCP call duration by hour of day
Session History Graph	Event	Session history graph
Session Summary	Network Usage	Session summary
Session Usage	Event	Session usage
Severe & High Risk Apps	Application	Severe and high risk applications
Spyware Timeline	Threat	Spyware timeline
System Events Summary by Date	Event	System events summary by date
Threat Incident Summary	Network Usage	Number of incidents for all users and devices
Threat Score Summary	Network Usage	Threat score summary for all users and devices
Threats by Top Devices	Threat	Threats by Top Devices
Threats Prevention	Application	Threats Prevention
Top 5 Attacks by Severity	Threat	Top 5 attacks by severity
Top 5 IPS Events by Severity	Threat	Top 5 intrusion protection events by severity
Top 5 System Events by Severity	Event	Top 5 system events summary by severity
Top 5 Users by Bandwidth	Network Usage	Top 5 users by bandwidth usage
Top 10 AV Threats Detected	Threat	Top 10 AV Threats Detected
Top 10 Destination Countries by Browsing Time Enhanced	Web	Top 10 destination countries by enhanced browsing time
Top 10 Infected Devices with Botnet	Threat	Top 10 Infected Devices with Botnet

Name	Category	Description
Top 10 Infected Devices with Virus or Malware	Threat	Top 10 Infected Devices with Virus or Malware
Top 15 Destination Countries by Browsing Time	Web	Top 15 destination countries by browsing time
Top 15 Websites by Browsing Time	Network Usage	Top 15 websites by browsing time
Top 20 Admin Login Summary	Event	Top 20 login summary of administrator
Top 20 Allowed Web Categories	Web	Top 20 allowed web filtering categories
Top 20 Application Categories by Bandwidth	Application	Top 20 application categories by bandwidth usage
Top 20 Bandwidth Users	Web	Top 20 web users by bandwidth users
Top 20 Blocked Intrusions	Threat	Top 20 blocked intrusions
Top 20 Blocked Web Categories	Web	Top 20 blocked web filtering categories
Top 20 Category and Applications by Bandwidth	Traffic	Top 20 category and applications by bandwidth usage
Top 20 Category and Applications by Sessions	Traffic	Top 20 category and applications by session count
Top 20 Category and Websites by Bandwidth	Traffic	Top 20 category and websites by bandwidth usage
Top 20 Category and Websites by Sessions	Traffic	Top 20 category and websites by session count
Top 20 Critical Severity Intrusions	Threat	Top 20 critical severity intrusions
Top 20 Failed Admin Logins	Event	Top 20 failed logins of administrator
Top 20 High Risk Applications	Application	Top 20 high risk applications
Top 20 High Severity Intrusions	Threat	Top 20 high severity intrusions
Top 20 Intrusion Sources	Threat	Top 20 intrusion sources
Top 20 Intrusion Victims	Threat	Top 20 intrusion victims
Top 20 Intrusions by Types	Threat	Top 20 intrusions by types

Name	Category	Description
Top 20 Low Severity Intrusions	Threat	Top 20 low severity intrusions
Top 20 Medium Severity Intrusions	Threat	Top 20 medium severity intrusions
Top 20 Monitored Intrusions	Threat	Top 20 monitored intrusions
Top 20 Users by Bandwidth	Network Usage	Top 20 users by bandwidth usage
Top 20 Users or Sources by Sessions	Network Usage	Top 20 users or sources by session count
Top 20 Virus Victims	Threat	Top 20 virus victims
Top 20 Viruses	Threat	Top 20 viruses detected
Top 20 Web Categories by Bandwidth and Sessions	Web	Top 20 web filtering categories by bandwidth usage and session count
Top 20 Web Domains by Visits	Web	Top 20 visited web domains by number of visits
Top 20 Web Users by Requests	Web	Top 20 web users by number of requests
Top 25 Web Categories by Bandwidth	Application	Top 25 Web Categories by Bandwidth
Top 30 Application Categories by Bandwidth	Application	Top 30 application categories by bandwidth usage
Top 30 Applications by Bandwidth and Sessions	Application	Top 30 applications by bandwidth usage and session count
Top 30 Destinations by Bandwidth and Sessions	Application	Top 30 destinations by bandwidth usage and session count
Top 30 Key Applications	Application	Top 30 key applications crossing the network
Top 30 Policies by Bandwidth and Sessions	Application	Top 30 policies by bandwidth usage and sessions
Top 30 Subnets by Application Bandwidth	Network Usage	Top 30 Subnets by Application Bandwidth Usage
Top 30 Subnets by Application Sessions	Network Usage	Top 30 Subnets by Application Sessions
Top 30 Subnets by Bandwidth and Sessions	Network Usage	Top 30 Subnets by Bandwidth and Sessions

Name	Category	Description
Top 30 Subnets by Website Bandwidth	Network Usage	Top 30 Subnets by Website Bandwidth
Top 30 Subnets by Website Hits	Network Usage	Top 30 Subnets by Website Hits
Top 30 Subnets with Top 10 User by Bandwidth	Network Usage	Top 30 Subnets with Top 10 User by Bandwidth
Top 30 Subnets with Top 10 User by Sessions	Network Usage	Top 30 Subnets with Top 10 User by Sessions
Top 30 Users by Bandwidth and Sessions	Network Usage	Top 30 users by bandwidth usage and session count
Top 50 Allowed Websites	Web	Top 50 allowed websites by number of requests
Top 50 Allowed Websites by Requests	Web	Top 50 allowed websites by number of requests
Top 50 Websites and Category by Bandwidth	Web	Top 50 websites and web filtering categories by bandwidth usage
Top 50 Websites by Browsing Time	Web	Top 50 websites by browsing time
Top 50 Websites by Browsing Time Enhanced	Web	Top 50 websites by enhanced browsing time
Top 100 Critical Severity System Events	Event	Top 100 critical severity system events
Top 100 High Severity System Events	Event	Top 100 high severity system events
Top 100 Medium Severity System Events	Event	Top 100 medium severity system events
Top 100 Off-Wire Accepted APs	WiFi	Top 100 off-wire accepted wireless access points
Top 100 Off-Wire Suppressed APs	WiFi	Top 100 suppressed off-wire wireless access points
Top 100 Off-Wire Unclassified APs	WiFi	Top 100 unclassified off-wire wireless access points
Top 100 On-Wire Accepted APs	WiFi	Top 100 on-wire accepted wireless access points
Top 100 On-Wire Rogue APs	WiFi	Top 100 rogue on-wire wireless access points



Name	Category	Description
Top 100 On-Wire Suppressed APs	WiFi	Top 100 suppressed on-wire wireless access points
Top 100 On-Wire Unclassified APs	WiFi	Top 100 unclassified on-wire wireless access points
Top 100 WiFi Client Details	Event	Top 100 details of client event of wireless access point
Top 500 Allowed Applications by Bandwidth	Traffic	Top 500 allowed applications by bandwidth usage
Top 500 Blocked Applications by Sessions	Traffic	Top 500 blocked applications by session count
Top 500 Websites by Bandwidth	Traffic	Top 500 website sessions by bandwidth usage
Top Adware	Threat	Top 10 adware
Top Adware Sources	Threat	Top 10 adware sources
Top Adware Victims	Threat	Top 10 adware victims
Top Allowed Websites by Bandwidth	Web	Top 10 allowed websites by bandwidth usage
Top Application Categories Bandwidth	Application	Top 10 application categories by bandwidth usage
Top Application Categories by Bandwidth	Application	Top 10 application categories by bandwidth usage
Top Application Vulnerabilities	Other	Top 10 application vulnerabilities discovered
Top Applications by Bandwidth	Application	Top 10 applications by bandwidth usage
Top Applications by Sessions	Application	Top 10 applications by session count
Top Applications by WiFi Traffic	Application	Top 10 applications by WiFi bandwidth usage
Top APs by Bandwidth	Network Usage	Top 10 wireless access points by WiFi bandwidth usage
Top APs by WiFi Clients	Network Usage	Top 10 wireless access points by number of clients via WiFi
Top Attack Sources	Threat	Top 10 attack sources

Name	Category	Description
Top Attack Victims	Threat	Top 10 attack victims
Top Attacks	Threat	Top 10 intrusions
Top Authenticated VPN Logins	Event	Top 10 authenticated VPN logins
Top Blocked Attacks	Threat	Top 10 blocked intrusions
Top Blocked SCCP Callers	Application	Top 10 blocked SCCP callers
Top Blocked SIP Callers	Application	Top 10 blocked SIP callers
Top Blocked Web Users	Web	Top 10 blocked web users
Top Blocked Websites	Web	Top 10 blocked websites by number of requests
Top Blocked Websites and Categories	Web	Top 10 blocked web filtering websites and categories by number of requests
Top Botnet Infected Hosts	Network Usage	Top 10 botnet infected hosts
Top Botnet Sources	Network Usage	Top 10 botnet sources
Top Botnets by Sources	Network Usage	Top 10 botnets by sources
Top Critical Severity IPS Events	Threat	Top 10 critical severity intrusion protection events
Top Destination Countries by Browsing Time	Web	Top 10 destination countries by browsing time
Top Destination Countries by Browsing Time Enhanced	Web	Top destination countries by browsing time
Top Destinations by Bandwidth	Network Usage	Top 10 destination addresses by bandwidth usage
Top Destinations by Sessions	Network Usage	Top 10 destination addresses by session count
Top Device Types by WiFi Clients	Network Usage	Top 10 device types by number of clients via WiFi

Name	Category	Description
Top Device Types by WiFi Traffic	Network Usage	Top 10 device types by WiFi bandwidth usage
Top Devices by Increased Threat Scores	Network Usage	Top 10 devices by increased threat scores for last two periods
Top Devices by Threat Score	Network Usage	Top 10 devices by threat score in risk
Top Devices by Threat Scores	Network Usage	Top 10 devices by threat scores
Top DHCP Summary by Interfaces	Event	Top 10 DHCP summary by interfaces
Top Dial-up IPsec Tunnels by Bandwidth	Network Usage	Top 10 dial-up IPsec VPN tunnels by bandwidth usage
Top Dial-up IPsec Users by Bandwidth	Network Usage	Top 10 users of dial-up IPsec VPN by bandwidth usage
Top Dial-up IPsec Users by Bandwidth and Availability	Event	Top 10 users of dial-up IPsec VPN tunnel by bandwidth usage and availability
Top Dial-up IPsec Users by Duration	VPN	Top 10 users of dial-up IPsec VPN by duration
Top Dial-up VPN Users by Duration	VPN	Top 10 users of dial-up SSL and IPsec VPN by duration
Top DLP Events	DLP	Top 10 data leak prevention events
Top Email Recipients	Email	Top 10 recipients by number of emails
Top Email Senders	Email	Top 10 senders by number of emails
Top Failed VPN Logins	Event	Top 10 failed VPN login attempts
Top High Severity IPS Events	Threat	Top 10 high severity intrusion protection events
Top Informational Severity IPS Events	Threat	Top 10 informational severity intrusion protection events
Top IPsec Dial-up User by Bandwidth	Network Usage	Top 10 users of IPsec VPN dial-up tunnel by bandwidth usage
Top Low Severity IPS Events	Threat	Top 10 low severity intrusion protection events

Name	Category	Description
Top Malware	Threat	Top malware detected by malware type
Top Malware Sources	Threat	Top 10 malware sources by host name or IP address
Top Managed AP Summary	Event	Top 10 managed wireless access point summary by status
Top Medium Severity IPS Events	Threat	Top 10 medium severity intrusion protection events
Top Off-Wire AP Details	Event	Top 10 details of off-wire wireless access point
Top Off-Wire AP Summary	Event	Top 10 off-wire wireless access point detection summary by status
Top Off-Wire AP Summary Pie Chart	Event	Top 10 off-wire wireless access point detection summary by status pie chart
Top On-Wire AP Details	Event	Top 10 details of on-wire wireless access point
Top On-Wire AP Summary	Event	Top 10 on-wire wireless access point detection summary by status
Top On-Wire AP Summary Pie Chart	Event	Top 10 on-wire wireless access point detection summary by status pie chart
Top OS by WiFi Clients	Network Usage	Top 10 operating systems by number of clients via WiFi
Top OS by WiFi Traffic	Network Usage	Top 10 operating systems by WiFi bandwidth usage
Top Recipients by Aggregated Email Size	Email	Top 10 recipients by aggregated email size
Top Search Phrases	Web	Top 10 search filtering phrases
Top Senders by Aggregated Email Size	Email	Top 10 senders by aggregated email size
Top Site-to-Site IPsec Tunnels by Bandwidth	Network Usage	Top 10 site-to-site IPsec VPN tunnels by bandwidth usage
Top Site-to-Site IPsec Tunnels by Bandwidth and Availability	Event	Top 10 Site-to-Site IPsec tunnels by bandwidth usage and availability
Top Spyware	Threat	Top 10 spyware

Name	Category	Description
Top Spyware Sources	Threat	Top 10 spyware sources
Top Spyware Victims	Threat	Top 10 spyware victims
Top SSIDs by Bandwidth	Network Usage	Top 10 SSIDs by WiFi bandwidth usage
Top SSIDs by WiFi Clients	Network Usage	Top 10 SSIDs by number of clients via WiFi
Top SSL Tunnel Users by Bandwidth	VPN	Top 10 users of SSL VPN tunnel by bandwidth usage
Top SSL Tunnel Users by Bandwidth and Availability	Event	Top 10 users of SSL VPN tunnel by bandwidth usage and availability
Top SSL Users by Duration	VPN	Top 10 users of SSL VPN web portal and tunnel by duration
Top SSL VPN Sources by Bandwidth	VPN	Top 10 users of SSL VPN tunnel by bandwidth usage
Top SSL Web Portal Users by Bandwidth	VPN	Top 10 users of SSL VPN web portal by bandwidth usage
Top SSL Web Portal Users by Bandwidth and Availability	Event	Top 10 users of SSL web portal by bandwidth usage and availability
Top Unclassified AP Summary	Event	Top 10 unclassified wireless access point summary by status
Top Users Browsing Time	Network Usage	Top 10 users by estimated web browsing time
Top Users Browsing Time Enhanced	Network Usage	Top 10 users by enhanced estimated web browsing time
Top Users by Bandwidth	Network Usage	Top 10 users by bandwidth usage
Top Users by Browsing Time	Network Usage	Top 10 users by estimated web browsing time
Top Users by Browsing Time Enhanced	Network Usage	Top users by enhanced estimated web browsing time
Top Users by Increased Threat Scores	Network Usage	Top 10 users by increased threat scores for last 2 periods

Name	Category	Description
Top Users by Sessions	Network Usage	Top 10 users by session count
Top Users by Threat Scores	Network Usage	Top 10 users by threat scores
Top Users Threat Score	Network Usage	Top 10 users by threat score
Top Video Streaming Applications and Websites by Bandwidth	Web	Top 10 video streaming applications and websites by bandwidth usage
Top Video Streaming Websites by Bandwidth	Web	Top 10 video streaming websites of web filter by bandwidth usage
Top Virus Victims	Threat	Top virus victims
Top Viruses	Threat	Top 10 viruses detected
Top Web Categories by Bandwidth and Sessions	Web	Top 10 web filtering categories by bandwidth usage and session count
Top Web Categories by Browsing Time	Web	Top 10 web filtering categories by browsing time
Top Web Categories by Browsing Time Enhanced	Web	Top 10 web filtering categories by enhanced browsing time
Top Web Categories Visited	Application	Top 25 Web Categories Visited
Top Web Users by Allowed Requests	Web	Top 10 web users by number of allowed requests
Top Web Users by Bandwidth	Web	Top 10 web users by bandwidth usage
Top Web Users by Blocked Requests	Web	Top 10 web users by number of blocked requests
Top Web Users by Browsing Time	Web	Top 10 web users by browsing time
Top Websites by Browsing Time Enhanced	Network Usage	Top websites by enhanced browsing time
Top WiFi Clients Bandwidth	Network Usage	Top 10 WiFi clients by bandwidth usage
Top WiFi Clients by Bandwidth	Network Usage	Top 10 clients by WiFi bandwidth usage

Name	Category	Description
Total Threats Found	Threat	Total Threats Found
Traffic History	Network Usage	Traffic history by number of active users
Traffic Statistics	Application	Top 10 traffic statistics summary
Unclassified AP Summary Pie Chart	Event	Unclassified wireless access point summary by status pie chart
User Drilldown Count Spam Activity by Hour Of Day	Email	User drilldown count of spam activity by hour of day
User Drilldown Top Allowed Web Categories	Web	User drilldown top 10 allowed web categories
User Drilldown Top Allowed Web Sites by Requests	Web	User drilldown top 10 allowed web sites by requests
User Drilldown Top Attacks	Threat	User drilldown top 10 attacks
User Drilldown Top Attacks High Severity	Threat	User drilldown top 10 attacks high severity
User Drilldown Top Blocked Web Categories	Web	User drilldown top 10 blocked web categories
User Drilldown Top Blocked Web Sites by Requests	Web	User drilldown top 10 blocked web sites by requests
User Drilldown Top Spam Sources	Email	User drilldown top 10 spam sources
User Drilldown Top Virus by Name	Threat	User drilldown top 10 virus by name
User Drilldown Top Virus Receivers Over Email	Threat	User Drilldown top 10 virus receivers over email
User Top 500 Websites by Bandwidth	Traffic	Top 500 user visted websites by bandwidth usage
User Top 500 Websites by Sessions	Traffic	Top 500 user visted websites by session count
UTM Drilldown Email Receivers Summary	Email	UTM drilldown email receivers summary
UTM Drilldown Email Senders Summary	Email	UTM drilldown email senders summary
UTM Drilldown No.1 Traffic Summary	Network Usage	UTM drilldown number 1 traffic summary

Name	Category	Description
UTM Drilldown Top 5 Applications by Bandwidth	Application	UTM drilldown top 5 applications by bandwidth
UTM Drilldown Top 5 Applications by Sessions	Application	UTM drilldown top 5 applications by sessions
UTM Drilldown Top 5 Email Recipients by Bandwidth	Email	UTM drilldown top 5 email recipients by bandwidth
UTM Drilldown Top 5 Email Senders by Bandwidth	Email	UTM drilldown top 5 email senders by bandwidth
UTM Drilldown Top 10 User Destination	Network Usage	UTM drilldown top 10 user destinations
UTM Drilldown Top 20 Attacks	Threat	UTM drilldown top 20 attacks by name
UTM Drilldown Top 20 Virus by Name	Threat	UTM drilldown top 20 viruses by name
UTM Drilldown Top 20 Vulnerability	Other	Top 20 vulnerabilities by name
UTM Drilldown Top Allowed Websites by Bandwidth	Web	UTM drilldown top 10 allowed sites by bandwidth
UTM Drilldown Top Blocked Websites by Requests	Web	UTM drilldown top 10 blocked sites by request
Virus Timeline	Threat	Virus timeline
Viruses Discovered	Network Usage	Viruses discovered
VPN Logins	Event	List of VPN user logins
VPN Traffic Usage Trend	Event	Bandwidth usage trend for VPN traffic
Web Activity Summary	Web	Web activity summary by number of requests
Web Filter Violations	Threat	Web Filter Violations
WiFi Traffic Bandwidth	Network Usage	Overall WiFi traffic bandwidth usage
Zero-day Malware Detected on The Network	Application	Zero-day malware detected on the network

## Predefined datasets

The following table lists the predefined datasets for FortiGate.



Name	Log Type
Admin-Failed-Login-Summary	Event
Admin-Login-Summary	Event
Admin-Login-Summary-By-Date	Event
Adware-Time-Line	Threat
appctrl-Top-Blocked-SCCP-Callers	Application
appctrl-Top-Blocked-SIP-Callers	Application
Application-Session-History	Event
Application-Usage-List	Network Usage
App-Risk-Applications-Running-Over-HTTP	Application
App-Risk-Application-Usage-By-Category-With-Pie	Application
App-Risk-App-Usage-by-Category	Application
App-Risk-Breakdown-Of-Risk-Applications	Application
Apprisk-Ctrl-Application-Vulnerability	Application
Apprisk-Ctrl-Breakdown-Of-High-Risk-Application	Application
Apprisk-Ctrl-Category-Breakdown-By-Bandwidth	Application
Apprisk-Ctrl-Common-Virus-Botnet-Spyware	Application
Apprisk-Ctrl-Files-Analyzed-By-FortiCloud-Sandbox	Application
Apprisk-Ctrl-File-Transferred-By-Application	Application
Apprisk-Ctrl-High-Risk-Application-Behavioral	Application
Apprisk-Ctrl-Key-Application-Crossing-The-Network	Application
Apprisk-Ctrl-Malicious-Files-Detected-By-FortiCloud-Sandbox	Application
Apprisk-Ctrl-Risk-Application-Usage-By-Category-With-Pie	Application
Apprisk-Ctrl-Severe-High-Risk-Application	Application
Apprisk-Ctrl-Threats-Prevention	Application

Name	Log Type
Apprisk-Ctrl-Top-20-High-Risk-Application	Application
Apprisk-Ctrl-Top-Web-Applications-by-Bandwidth	Application
Apprisk-Ctrl-Top-Web-Categories-Visited	Application
Apprisk-Ctrl-Top-Web-Categories-Visited	Application
Apprisk-Ctrl-Zero-Day-Detected-On-Network	Application
App-Risk-Data-Loss-Prevention-Type-Events	DLP
App-Risk-High-Risk-Application	Application
App-Risk-Key-Applications-Crossing-The-Network	Application
App-Risk-Malware-Discovered	Network Usage
App-Risk-Number-Of-Applications-By-Risk-Behavior	Application
App-Risk-Top-Critical-Threat-Vectors-Crossing-The-Network	Threat
App-Risk-Top-Devices-By-Reputation-Scores	Network Usage
App-Risk-Top-High-Threat-Vectors-Crossing-The-Network	Threat
App-Risk-Top-Info-Threat-Vectors-Crossing-The-Network	Threat
App-Risk-Top-Low-Threat-Vectors-Crossing-The-Network	Threat
App-Risk-Top-Medium-Threat-Vectors-Crossing-The-Network	Threat
App-Risk-Top-Threat-Vectors-Crossing-The-Network	Threat
App-Risk-Top-Users-By-Bandwidth	Network Usage
App-Risk-Top-Users-By-Reputation-Scores-Bar	Network Usage
App-Risk-Top-User-Source-By-Sessions	Network Usage
App-Risk-Top-Virus-By-Name	Threat
App-Risk-Top-Virus-Victim	Threat
App-Risk-Top-Web-Sites-Visited-By-Network-Users	Web
App-Risk-Top-Web-Sites-Visited-By-Network-Users-Pie-Cha	Web

Name	Log Type
App-Risk-Traffic-Top-Hostnames-By-Browsing-Time	Network Usage
App-Risk-Traffic-Top-Hostnames-By-Browsing-Time-Enhanced	Network Usage
App-Risk-Vulnerability-Discovered	Other
App-Risk-Web-Browsing-Hostname-Category	Web
app-Top-20-Category-and-Applications-by-Bandwidth	Traffic
app-Top-20-Category-and-Applications-by-Session	Traffic
app-Top-500-Allowed-Applications-by-Bandwidth	Traffic
app-Top-500-Blocked-Applications-by-Session	Traffic
Attacks-By-Severity	Threat
Attacks-Over-HTTP-HTTPs	Threat
bandwidth-app-Category-By-Bandwidth	Application
bandwidth-app-Top-App-By-Bandwidth-Sessions	Application
bandwidth-app-Top-Dest-By-Bandwidth-Sessions	Application
bandwidth-app-Top-Policies-By-Bandwidth-Sessions	Application
bandwidth-app-Top-Users-By-Bandwidth-Sessions	Network Usage
bandwidth-app-Traffic-By-Active-User-Number	Network Usage
bandwidth-app-Traffic-Statistics	Application
Botnet-Activity-By-Sources	Network Usage
Botnet-Infected-Hosts	Network Usage
Botnet-Sources	Network Usage
Botnet-Timeline	Network Usage
Botnet-Victims	Network Usage
content-Count-Total-SCCP-Call-Registrations-by-Hour-of-Day	Other
content-Count-Total-SCCP-Calls-Duration-by-Hour-of-Day	Other

Name	Log Type
content-Count-Total-SCCP-Calls-per-Status	Other
content-Count-Total-SIP-Call-Registrations-by-Hour-of-Day	Other
content-Count-Total-SIP-Calls-per-Status	Other
content-Dist-Total-SIP-Calls-by-Duration	Other
Critical-Severity-Intrusions	Threat
default-AP-Detection-Summary-by-Status-OffWire	Event
default-AP-Detection-Summary-by-Status-OffWire_table	Event
default-AP-Detection-Summary-by-Status-OnWire	Event
default-AP-Detection-Summary-by-Status-OnWire_table	Event
default-Managed-AP-Summary	Event
default-Managed-AP-Summary_table	Event
default-selected-AP-Details-OffWire	Event
default-selected-AP-Details-OnWire	Event
default-Top-IPSEC-Vpn-Dial-Up-User-By-Bandwidth	Network Usage
default-Top-Sources-Of-SSL-VPN-Tunnels-By-Bandwidth	VPN
default-Unclassified-AP-Summary	Event
default-Unclassified-AP-Summary_table	Event
Detected-Botnet	Network Usage
DHCP-Summary-By-Port	Event
drilldown-Top-App-By-Bandwidth-Bar	Application
drilldown-Top-App-By-Bandwidth-Table	Application
drilldown-Top-App-By-Sessions-Bar	Application
drilldown-Top-App-By-Sessions-Table	Application
drilldown-Top-Attack-Destination	Threat

Name	Log Type
drilldown-Top-Attack-List	Threat
drilldown-Top-Attack-Source	Threat
drilldown-Top-Destination-By-Bandwidth-Table	Network Usage
drilldown-Top-Destination-By-Sessions-Table	Network Usage
drilldown-Top-Email-Receive-Sender-By-Count	Email
drilldown-Top-Email-Receive-Sender-By-Volume	Email
drilldown-Top-Email-Recipient-By-Count	Email
drilldown-Top-Email-Recipient-By-Volume	Email
drilldown-Top-Email-Sender-By-Count	Email
drilldown-Top-Email-Sender-By-Volume	Email
drilldown-Top-Email-Send-Recipient-By-Count	Email
drilldown-Top-Email-Send-Recipient-By-Volume	Email
drilldown-Top-User-By-Bandwidth-Bar	Network Usage
drilldown-Top-User-By-Bandwidth-Table	Network Usage
drilldown-Top-User-By-Sessions-Bar	Network Usage
drilldown-Top-User-By-Sessions-Table	Network Usage
drilldown-Top-Virus	Threat
drilldown-Top-Website-By-Request-Bar	Web
drilldown-Top-Website-By-Request-Table	Web
drilldown-Top-Web-User-By-Visit-Bar	Web
drilldown-Top-Web-User-By-Visit-Table	Web
drilldown-Virus-Detail	Threat
Estimated-Browsing-Time	Network Usage
Estimated-Browsing-Time-Enhanced	Network Usage

Name	Log Type
event-Usage-CPU	Event
event-Usage-CPU-Sessions	Event
event-Usage-Memory	Event
event-Usage-Sessions	Event
event-Wireless-Accepted-Offwire	WiFi
event-Wireless-Accepted-Onwire	WiFi
event-Wireless-Client-Details	Event
event-Wireless-Rogue-Offwire	WiFi
event-Wireless-Rogue-Onwire	WiFi
event-Wireless-Suppressed-Offwire	WiFi
event-Wireless-Suppressed-Onwire	WiFi
event-Wireless-Unclassified-Offwire	WiFi
event-Wireless-Unclassified-Onwire	WiFi
fct-All-Antivirus-Antimalware-Detections	Threat
fct-Application-Firewall	Threat
fct-Client-Summary	Event
fct-Device-by-Operating-System	Event
fct-Endpoint-Profile-Deployment	Event
fct-Errors-and-Alerts	Event
fct-Installed-Feature-Summary	Event
fct-Installed-FortiClient-Version	Event
fct-Threats-by-Top-Devices	Threat
fct-Top10-AV-Threats-Detected	Threat
fct-Top10-Infected-Devices-with-Botnet	Threat

Name	Log Type
fct-Top10-Infected-Devices-with-Virus-Malware	Threat
fct-Total-Threats-Found	Threat
fct-Web-Filter-Violations	Threat
High-Severity-Intrusions	Threat
Intrusion-in-Last-7-Days	Threat
Intrusions-Timeline-By-Severity	Threat
Low-Severity-Intrusions	Threat
Medium-Severity-Intrusions	Threat
Number-Of-Incidents-For-All-Users-Devices	Network Usage
os-Detect-OS-Count	Traffic
Score-Summary-For-All-Users-Devices	Network Usage
Session-Summary-Day-Of-Month	Network Usage
Spyware-Time-Line	Threat
System-Critical-Severity-Events	Event
System-High-Severity-Events	Event
System-Medium-Severity-Events	Event
System-Summary-By-Date	Event
System-Summary-By-Severity	Event
Top5-Users-By-Bandwidth	Network Usage
Top-10-Users-Browsing-Time	Network Usage
Top-10-Users-Browsing-Time-Enhanced	Network Usage
Top-20-Categories-By-Bandwidth	Application
Top-20-Web-Users-By-Bandwidth	Web
Top30-Subnets-by-Application-Bandwidth	Network Usage

Name	Log Type
Top30-Subnets-by-Application-Sessions	Network Usage
Top30-Subnets-by-Bandwidth-and-Sessions	Network Usage
Top30-Subnets-by-Website-Bandwidth	Network Usage
Top30-Subnets-by-Website-Hits	Network Usage
Top30-Subnets-with-Top10-User-by-Bandwidth	Network Usage
Top30-Subnets-with-Top10-User-by-Sessions	Network Usage
Top-50-Websites-By-Bandwidth	Web
Top-Adware-by-Name	Threat
Top-Adware-Source	Threat
Top-Adware-Victims	Threat
Top-Allowed-WebSites-By-Bandwidth	Web
Top-Allowed-Websites-By-Requests	Web
Top-App-By-Bandwidth	Application
Top-App-By-Sessions	Application
Top-Attacks-Blocked	Threat
Top-Attacks-Detected	Threat
Top-Attack-Source	Threat
Top-Attack-Victim	Threat
Top-Blocked-Intrusions	Threat
Top-Blocked-Websites	Web
Top-Blocked-Web-Users	Web
Top-Destination-Addresses-By-Bandwidth	Network Usage
Top-Destination-Addresses-By-Sessions	Network Usage
Top-Destination-Countries-By-Browsing-Time	Web



Name	Log Type
Top-Destination-Countries-By-Browsing-Time-Enhanced	Web
Top-Devices-By-Reputation-Scores	Network Usage
Top-Devices-With-Increased-Scores	Network Usage
Top-Dialup-IPSEC-By-Bandwidth-and-Availability	Event
Top-Dial-Up-IPSEC-Tunnels-By-Bandwidth	Network Usage
Top-Dial-Up-IPSEC-Users-By-Bandwidth	Network Usage
Top-Dial-Up-IPSEC-Users-By-Duration	VPN
Top-Email-Receivers-By-Bandwidth	Email
Top-Email-Receivers-By-Count	Email
Top-Email-Senders-By-Bandwidth	Email
Top-Email-Senders-By-Count	Email
Top-Intrusions-By-Types	Threat
Top-Intrusion-Sources	Threat
Top-Intrusion-Victims	Threat
Top-Malware-By-Name	Threat
Top-Monitored-Intrusions	Threat
Top-S2S-IPSEC-Tunnels-By-Bandwidth-and-Availability	Event
Top-Spyware-by-Name	Threat
Top-Spyware-Source	Threat
Top-Spyware-Victims	Threat
Top-SSL-Tunnel-Mode-By-Bandwidth-and-Availability	Event
Top-SSL-VPN-Tunnel-Users-By-Bandwidth	VPN
Top-SSL-VPN-Users-By-Duration	VPN
Top-SSL-VPN-Web-Mode-Users-By-Bandwidth	VPN

Name	Log Type
Top-SSL-Web-Mode-By-Bandwidth-and-Availability	Event
Top-Static-IPSEC-Tunnels-By-Bandwidth	Network Usage
Top-Users-By-Bandwidth	Network Usage
Top-Users-By-Reputation-Scores	Network Usage
Top-User-Source-By-Sessions	Network Usage
Top-Users-With-Increased-Scores	Network Usage
Top-Video-Streaming-Websites-By-Bandwidth	Web
Top-Virus-By-Name	Threat
Top-Virus-Source	Threat
Top-Virus-Victim	Threat
Top-Web-Users-By-Bandwidth	Web
Top-Web-Users-By-Request	Web
Top-Wifi-Client-By-Bandwidth	Network Usage
Traffic-Bandwidth-Summary-Day-Of-Month	Network Usage
traffic-Browsing-Time-Summary	Web
traffic-Browsing-Time-Summary-Enhanced	Web
Traffic-History-By-Active-User	Network Usage
traffic-Top-10-Categories-By-Browsing-Time	Web
traffic-Top-10-Categories-By-Browsing-Time-Enhanced	Web
traffic-Top-50-Sites-By-Browsing-Time	Web
traffic-Top-50-Sites-By-Browsing-Time-Enhanced	Web
traffic-Top-Destination-Countries-By-Browsing-Time	Web
traffic-Top-Destination-Countries-By-Browsing-Time-Enhanced	Web
traffic-Top-Web-Users-By-Browsing-Time	Web

Name	Log Type
user-drilldown-Count-Spam-Activity-by-Hour-of-Day	Email
user-drilldown-Top-Allowed-Web-Categories	Web
user-drilldown-Top-Allowed-Web-Sites-By-Requests	Web
user-drilldown-Top-Attacks	Threat
user-drilldown-Top-Attacks-High-Severity	Threat
user-drilldown-Top-Blocked-Web-Categories	Web
user-drilldown-Top-Blocked-Web-Sites-By-Requests	Web
user-drilldown-Top-Spam-Sources	Email
user-drilldown-Top-Virus-By-Name	Threat
user-drilldown-Top-Virus-Receivers-Over-Email	Threat
utm-drilldown-Email-Receivers-Summary	Email
utm-drilldown-Email-Senders-Summary	Email
utm-drilldown-Top-Allowed-Websites-By-Bandwidth	Web
utm-drilldown-Top-App-By-Bandwidth	Application
utm-drilldown-Top-App-By-Sessions	Application
utm-drilldown-Top-Attacks	Threat
utm-drilldown-Top-Blocked-Websites-By-Request	Web
utm-drilldown-Top-Email-Recipients-By-Bandwidth	Email
utm-drilldown-Top-Email-Senders-By-Bandwidth	Email
utm-drilldown-Top-Traffic-Summary	Network Usage
utm-drilldown-Top-User-Destination	Network Usage
utm-drilldown-Top-Virus-By-Name	Threat
utm-drilldown-Top-Vulnerability	Other
Virus-Time-Line	Threat

Name	Log Type
vpn-Authenticated-Logins	Event
vpn-Failed-Login-Attempts	Event
vpn-Top-Dial-Up-VPN-Users-By-Duration	VPN
vpn-Traffic-Usage-Trend-VPN-Summary	Event
vpn-User-Login-history	Event
web-Detailed-Website-Browsing-Log	Traffic
webfilter-Top-Allowed-Web-Categories	Web
webfilter-Top-Allowed-Web-Sites-By-Requests	Web
webfilter-Top-Blocked-Web-Categories	Web
webfilter-Top-Blocked-Web-Sites-By-Requests	Web
webfilter-Top-Search-Phrases	Web
webfilter-Top-Video-Streaming-Websites-By-Bandwidth	Web
webfilter-Top-Web-Users-By-Allowed-Requests	Web
webfilter-Top-Web-Users-By-Blocked-Requests	Web
webfilter-Web-Activity-Summary-By-Requests	Web
web-Hourly-Category-and-Website-Hits-Action	Traffic
web-Top-20-Category-and-Websites-by-Bandwidth	Traffic
web-Top-20-Category-and-Websites-by-Session	Traffic
web-Top-500-User-Visted-Websites-by-Bandwidth	Traffic
web-Top-500-User-Visted-Websites-by-Session	Traffic
web-Top-500-Website-Sessions-by-Bandwidth	Traffic
wifi-Num-Distinct-Client	Network Usage
wifi-Overall-Traffic	Network Usage
wifi-Top-AP-By-Bandwidth	Network Usage

Name	Log Type
wifi-Top-AP-By-Client	Network Usage
wifi-Top-App-By-Bandwidth	Application
wifi-Top-Client-By-Bandwidth	Network Usage
wifi-Top-Device-By-Bandwidth	Network Usage
wifi-Top-Device-By-Client	Network Usage
wifi-Top-OS-By-Bandwidth	Network Usage
wifi-Top-OS-By-WiFi-Client	Network Usage
wifi-Top-SSID-By-Bandwidth	Network Usage
wifi-Top-SSID-By-Client	Network Usage

## Predefined macros

The following table lists the predefined macros for FortiGate.

Name	Description	Category
App Category with Highest Session Count	App Category with Highest Session Count	Traffic
Application with Highest Bandwidth	Application with Highest Bandwidth	Traffic
Application with Highest Session Count	Application with Highest Session Count	Traffic
Attack with Highest Session Count	Attack with Highest Session Count	Attack
Botnet with Highest Session Count	Botnet with Highest Session Count	Traffic
Destination with Highest Bandwidth	Destination with Highest Bandwidth	Traffic
Destination with Highest Session Count	Destination with Highest Session Count	Traffic
Highest Bandwidth Consumed (App Category)	Highest Bandwidth Consumed (App Category)	Traffic
Highest Bandwidth Consumed (Application)	Highest Bandwidth Consumed (Application)	Traffic
Highest Bandwidth Consumed (Destination)	Highest Bandwidth Consumed (Destination)	Traffic
Highest Bandwidth Consumed (P2P Application)	Highest Bandwidth Consumed (P2P Application)	Traffic

Name	Description	Category
Highest Bandwidth Consumed (Source)	Highest Bandwidth Consumed (Source)	Traffic
Highest Bandwidth Consumed (Web Category)	Highest Bandwidth Consumed (Web Category)	Web Filter
Highest Bandwidth Consumed (Website)	Highest Bandwidth Consumed (Website)	Web Filter
Highest Risk Application with Highest Bandwidth	Highest Risk Application with Highest Bandwidth	Traffic
Highest Risk Application with Highest Session Count	Highest Risk Application with Highest Session Count	Traffic
Highest Session Count (App Category)	Highest Session Count (App Category)	Traffic
Highest Session Count (Application)	Highest Session Count (Application)	Traffic
Highest Session Count (Attack)	Highest Session Count (Attack)	Attack
Highest Session Count (Botnet)	Highest Session Count (Botnet)	Traffic
Highest Session Count (Destination)	Highest Session Count (Destination)	Traffic
Highest Session Count (Highest Severity Attack)	Highest Session Count (Highest Severity Attack)	Attack
Highest Session Count (P2P Application)	Highest Session Count (P2P Application)	Traffic
Highest Session Count (Source)	Highest Session Count (Source)	Traffic
Highest Session Count (Virus)	Highest Session Count (Virus)	Traffic
Highest Session Count (Web Category)	Highest Session Count (Web Category)	Web Filter
Highest Session Count (Website)	Highest Session Count (Website)	Web Filter
Highest Severity Attack with Highest Session Count	Highest Severity Attack with Highest Session Count	Attack
P2P Application with Highest Bandwidth	P2P Application with Highest Bandwidth	Traffic
P2P Application with Highest Session Count	P2P Application with Highest Session Count	Traffic
Source with Highest Bandwidth	Source with Highest Bandwidth	Traffic
Source with Highest Session Count	Source with Highest Session Count	Traffic
Total Number of Attacks	Total Number of Attacks	Attack

Name	Description	Category
Total Number of Botnet Events	Total Number of Botnet Events	Traffic
Total Number of Viruses	Total Number of Viruses	Traffic
Virus with Highest Session Count	Virus with Highest Session Count	Traffic
Web Category with Highest Bandwidth	Web Category with Highest Bandwidth	Web Filter
Web Category with Highest Session Count	Web Category with Highest Session Count	Web Filter
Website with Highest Bandwidth	Website with Highest Bandwidth	Web Filter
Website with Highest Session Count	Website with Highest Session Count	Web Filter

## FortiMail

### Predefined charts

The following table lists the predefined charts for FortiMail.

Name	Description	Category
Average Size of Mails	Average size of mails in FortiMail history	History
History Average Size by Hour	Average size of messages per hour in FortiMail history	History
History Connections per Hour	Number of connections per hour in FortiMail history	History
History Messages per Hour	Number of mails per hour in FortiMail history	History
History Total Size by Hour	Total size of exchanged mails per hour in FortiMail history	History
Number of Mail Connections	Number of mail connections in FortiMail history	History
Number of Mails	Number of mails in FortiMail history	History
Top 20 Access List	Top 20 access list in FortiMail history	History
Top 20 IP Policy	Top 20 IP policy in FortiMail history	History
Top 20 Recipient Policy	Top 20 recipient policy in FortiMail history	History

Name	Description	Category
Top 20 Subjects	Top 20 subjects in FortiMail history	History
Top Classifiers by Hour	Top classifiers by hour in FortiMail history	History
Top Disposition Classifiers	Top disposition classifiers in FortiMail history	History
Top History Client Endpoint	Top 10 clients endpoint in FortiMail history	History
Top History Client IP	Top 10 client IP in FortiMail history	History
Top History Client MSISDN	Top 10 clients MSISDN in FortiMail history	History
Top History Local Recipient	Top 10 local recipients in FortiMail history	History
Top History Local Sender	Top 10 local senders in FortiMail history	History
Top History Local User	Top 10 local users in FortiMail history	History
Top History Local Virus Recipient	Top 10 local virus recipients in FortiMail history	History
Top History Local Virus Sender	Top 10 local virus senders in FortiMail history	History
Top History Mail Dest IP	Top 10 mail destination IP in FortiMail history	History
Top History Recipient	Top 10 recipients in FortiMail history	History
Top History Remote Address	Top 10 remote address in FortiMail history	History
Top History Remote Recipient	Top 10 remote recipients in FortiMail history	History
Top History Remote Sender	Top 10 remote senders in FortiMail history	History
Top History Remote Virus Recipient	Top 10 remote virus recipients in FortiMail history	History
Top History Remote Virus Sender	Top 10 remote virus senders in FortiMail history	History
Top History Sender	Top 10 senders in FortiMail history	History
Top History Sender Endpoint	Top 10 senders Endpoint in FortiMail history	History
Top History Sender IP	Top 10 sender IP in FortiMail history	History
Top History Sender MSISDN	Top 10 senders MSISDN in FortiMail history	History



Name	Description	Category
Top History Total Active EmailAddress	Top 10 total active email address per domain	History
Top History Total Sent Received	Top 10 total sent received in FortiMail history	History
Top History Virus	Top 10 viruses in FortiMail history	History
Top History Virus Dest IP	Top 10 virus destination IP in FortiMail history	History
Top History Virus Endpoint	Top 10 viruses endpoint in FortiMail history	History
Top History Virus IP	Top 10 virus IP in FortiMail history	History
Top History Virus MSISDN	Top 10 viruses MSISDN in FortiMail history	History
Top History Virus Recipient	Top 10 virus recipients in FortiMail history	History
Top History Virus Sender	Top 10 virus senders in FortiMail history	History
Top Spammed Domains	Top spammed domains in FortiMail history	History
Top Spammed Users	Top spammed users in FortiMail history	History
Total Message Delay	Total message delay in FortiMail history	Event
Total Message TransmissionDelay	Total message transmissionDelay in FortiMail history	Event
Total Size of Mails	Total size of mails in FortiMail history	History

## Predefined datasets

The following table lists the predefined datasets for FortiMail.

Name	Device Type	Log Type
fml-Active-EmailAddress-Summary	FortiMail	History
fml-Average-Size-by-Hour	FortiMail	History
fml-Connections-per-Hour	FortiMail	History
fml-history-Average-Size-of-Mails	FortiMail	History
fml-History-Count-Total-Sent-Received	FortiMail	History
fml-history-Number-of-Mail-Connections	FortiMail	History

Name	Device Type	Log Type
fml-history-Number-of-Mails	FortiMail	History
fml-history-Top-Access-List	FortiMail	History
fml-history-Top-Classifiers-By-Hour	FortiMail	History
fml-History-Top-Client-Endpoint	FortiMail	History
fml-History-Top-Client-IP	FortiMail	History
fml-History-Top-Client-MSISDN	FortiMail	History
fml-history-Top-Disposition-Classifiers	FortiMail	History
fml-history-Top-IP-Policy	FortiMail	History
fml-History-Top-Local-Recipient	FortiMail	History
fml-History-Top-Local-Sender	FortiMail	History
fml-History-Top-Local-User	FortiMail	History
fml-History-Top-Local-Virus-Recipient	FortiMail	History
fml-History-Top-Local-Virus-Sender	FortiMail	History
fml-History-Top-Mail-Dest-IP	FortiMail	History
fml-History-Top-Recipient	FortiMail	History
fml-history-Top-Recipient-Policy	FortiMail	History
fml-History-Top-Remote-Address	FortiMail	History
fml-History-Top-Remote-Recipient	FortiMail	History
fml-History-Top-Remote-Sender	FortiMail	History
fml-History-Top-Remote-Virus-Recipient	FortiMail	History
fml-History-Top-Remote-Virus-Sender	FortiMail	History
fml-History-Top-Sender	FortiMail	History
fml-History-Top-Sender-Endpoint	FortiMail	History
fml-History-Top-Sender-IP	FortiMail	History

Name	Device Type	Log Type
fml-History-Top-Sender-MSISDN	FortiMail	History
fml-history-Top-Spammed-Domains	FortiMail	History
fml-history-Top-Spammed-Users	FortiMail	History
fml-history-Top-Subjects	FortiMail	History
fml-History-Top-Virus	FortiMail	History
fml-History-Top-Virus-Dest-IP	FortiMail	History
fml-History-Top-Virus-Endpoint	FortiMail	History
fml-History-Top-Virus-IP	FortiMail	History
fml-History-Top-Virus-MSISDN	FortiMail	History
fml-History-Top-Virus-Recipient	FortiMail	History
fml-History-Top-Virus-Sender	FortiMail	History
fml-history-Total-Message-Delay	FortiMail	Event
fml-history-Total-Message-Transmission-Delay	FortiMail	Event
fml-history-Total-Size-of-Mails	FortiMail	History
fml-Messages-per-Hour	FortiMail	History
fml-Total-Size-by-Hour	FortiMail	History

## FortiWeb

### Predefined charts

The following table lists the predefined charts for FortiWeb.

Name	Description	Category
Top Attack Destinations by Source	Top 10 attacked destinations by source	Attack
Top Attack Destinations by Type	Top 10 attacked destinations by type	Attack
Top Attack Protocols by Type	Top 10 attack protocols by type	Attack

Name	Description	Category
Top Attack Severity by Action	Top 10 detected attack severities by action	Attack
Top Attack Sources	Top 10 sources of attacks	Attack
Top Attack Types	Top 10 detected attack types	Attack
Top Attack Types by Source	Top 10 detected attack types by source	Attack
Top Attack URLs	Top 10 detected attack URLs	Attack
Top Attacked Destinations	Top 10 attacked destinations	Attack
Top Attacked HTTP Methods by Type	Top 10 attacked HTTP methods by attack type	Attack
Top Attacked User Identifications	Top 10 Attacked User identifications	Attack
Top Attacks by Policy	Top 10 attacks used by policies	Attack
Top Event Categories	Top 10 event categories	Event
Top Event Categories by Status	Top 10 event categories by status	Event
Top Event Login by User	Top 10 login events by user	Event
Top Event Types	Top 10 event types	Event
Top Traffic Destinations	Top 10 destinations in FortiWeb traffic	Traffic
Top Traffic Policies	Top 10 policies in FortiWeb traffic	Traffic
Top Traffic Services	Top 10 services in FortiWeb traffic	Traffic
Top Traffic Sources	Top 10 sources in FortiWeb traffic	Traffic

## Predefined datasets

The following table lists the predefined datasets for FortiWeb.

Name	Device Type	Log Type
fwb-attack-Top-Attack-Destinations-By-Source	FortiWeb	Attack
fwb-attack-Top-Attack-Destinations-By-Type	FortiWeb	Attack
fwb-attack-Top-Attack-Protocols-By-Type	FortiWeb	Attack

Name	Device Type	Log Type
fwb-attack-Top-Attack-Severities-By-Action	FortiWeb	Attack
fwb-attack-Top-Attack-Sources	FortiWeb	Attack
fwb-attack-Top-Attack-Types	FortiWeb	Attack
fwb-attack-Top-Attack-Types-By-Source	FortiWeb	Attack
fwb-attack-Top-Attack-URLs	FortiWeb	Attack
fwb-attack-Top-Attacked-Destinations	FortiWeb	Attack
fwb-attack-Top-Attacked-Http-Methods-By-Type	FortiWeb	Attack
fwb-attack-Top-Attacked-User-Identifications	FortiWeb	Attack
fwb-attack-Top-Attacks-By-Policy	FortiWeb	Attack
fwb-event-Top-event-categories	FortiWeb	Event
fwb-event-Top-Event-Categories-By-Status	FortiWeb	Event
fwb-event-Top-event-types	FortiWeb	Event
fwb-event-Top-login-by-user	FortiWeb	Event
fwb-traffic-Top-Destinations	FortiWeb	Traffic
fwb-traffic-Top-Policies	FortiWeb	Traffic
fwb-traffic-Top-Services	FortiWeb	Traffic
fwb-traffic-Top-Sources	FortiWeb	Traffic

## FortiCache

### Predefined charts

The following table lists the predefined charts for FortiCache.

Name	Description	Category
Top 20 Websites by Bandwidth Savings	Top 20 Websites by Bandwidth Savings	Traffic
Top 20 Websites by Cache Rate	Top 20 Websites by Cache Rate	Traffic

Name	Description	Category
Top 20 Websites by Response Time Improvement	Top 20 Websites by Response Time Improvement	Traffic

## Predefined datasets

The following table lists the predefined datasets for FortiCache.

Name	Device Type	Log Type
fch-Top-Websites-by-Bandwidth-Savings	FortiCache	Traffic
fch-Top-Websites-by-Cache-Rate	FortiCache	Traffic
fch-Top-Webistes-by-Response-Time-Improvement	FortiCache	Traffic

## Appendix B - Port Numbers

The following tables describe the port numbers that the FortiAnalyzer unit uses:

- ports for traffic originating from units (outbound ports)
- ports for traffic receivable by units (listening ports)
- ports used to connect to the FortiGuard Distribution Network (FDN).

Traffic varies by enabled options and configured ports. Only default ports are listed.

Functionality	Port(s)
DNS lookup	UDP 53
FDN connection	TCP 443
NTP synchronization	UDP 123
SNMP traps	UDP 162
Syslog, log forwarding	UDP 514 If a secure connection has been configured between a FortiGate device and a FortiAnalyzer device, syslog traffic will be sent into an IPsec tunnel. Data will be exchanged over UDP 500/4500, Protocol IP/50.
Log and report upload	TCP 21 or TCP 22
SMTP alert email	TCP 25
User name LDAP queries for reports	TCP 389 or TCP 636
RADIUS authentication	TCP 1812
TACACS+ authentication	TCP 49
Log aggregation client	TCP 3000
Device registration of FortiGate or FortiManager units; remote access to quarantine, logs and reports from a FortiGate unit; remote management from a FortiManager unit (configuration retrieval) (OFTP)	TCP 514

FortiAnalyzer listening ports

Functionality	Port(s)
Syslog, log forwarding	UDP 514 If a secure connection has been configured between a FortiGate and a FortiAnalyzer, syslog traffic will be sent into an IPsec tunnel. Data will be exchanged over UDP 500/4500, Protocol IP/50.
SSH administrative access to the CLI	TCP 22
Telnet administrative access to the CLI	TCP 23
HTTP administrative access to the GUI	TCP 80
HTTPS administrative access to the GUI; remote management from a FortiManager unit	TCP 443
Device registration of FortiGate or FortiManager units; remote access to quarantine, logs and reports from a FortiGate unit; remote management from a FortiManager unit (configuration retrieval) (OFTP)	TCP 514
HTTP or HTTPS administrative access to the GUI's CLI dashboard widget. Protocol used will match the protocol used by the administrator when logging in to the GUI.	TCP 2032
Log aggregation server Log aggregation server support requires model FortiAnalyzer 800 series or greater.	TCP 3000
Web Service	TCP 8080
Ping	ICMP protocol



## Appendix C - Maximum Values Matrix

The following table lists maximum values per FortiAnalyzer model.

Feature	FAZ-100C, FAZ-200D	FAZ-300D, FAZ-400C	FAZ-1000C, FAZ-1000D	FAZ-3000D, FAZ-4000B	FAZ-3500E, FAZ-3900E	FAZ-VM-BASE	FAZ-VM-GB1	FAZ-VM-GB5	FAZ-VM-GB25	FAZ-VM-GB100
Administrative Domains (ADOMS)	100, 150	175, 200, 300	2000	2000	4000	10000	10000	10000	10000	10000
Administrators	256	256	256	256	256	256	256	256	256	256
Administrator access profiles	256	256	256	256	256	256	256	256	256	256
SNMP community	256	256	256	256	256	256	256	256	256	256
SNMP managers per community	256	256	256	256	256	256	256	256	256	256
Email servers	256	256	256	256	256	256	256	256	256	256
Syslog servers	256	256	256	256	256	256	256	256	256	256
TACACS+ servers	256	256	256	256	256	256	256	256	256	256
Administrator RADIUS servers	256	256	256	256	256	256	256	256	256	256
Administrator LDAP servers	256	256	256	256	256	256	256	256	256	256
Static routes	256	256	256	256	256	256	256	256	256	256
Log devices	100, 150	175, 200, 300	2000	2000	256	10000	10000	10000	10000	10000
Devices per ADOM	100, 150	175, 200, 300	2000	2000	4000	10000	10000	10000	10000	10000

Feature	FAZ-100C, FAZ-200D	FAZ-300D, FAZ-400C	FAZ-1000C, FAZ-1000D	FAZ-3000D, FAZ-4000B	FAZ-3500E, FAZ-3900E	FAZ-VM-BASE	FAZ-VM-GB1	FAZ-VM-GB5	FAZ-VM-GB25	FAZ-VM-GB100
Device Group Management	100, 150	175, 200, 300	2000	2000	4000	10000	10000	10000	10000	10000
Report output profiles	250	250	500	1000	1000	1000	1000	1000	1000	1000
SQL report templates	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
SQL report charts	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
SQL report data-sets	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
SQL database size (GB)	1000	4000, 1000, 2000	1000, 8000	16K, 6K, 24K		200	+200	+1000	+8K	+16K

## Appendix D - SNMP MIB Support

The FortiAnalyzer SNMP agent supports the following MIBs:

MIB or RFC	Description
FORTINET-CORE-MIB	This Fortinet-proprietary MIB enables your SNMP manager to query for system information and to receive traps that are common to multiple Fortinet devices.
FORTINET-FORTIMANAGER-FORTIANALYZER-MIB	This Fortinet-proprietary MIB enables your SNMP manager to query for FortiAnalyzer-specific information and to receive FortiAnalyzer-specific traps.
RFC-1213 (MIB II)	The FortiAnalyzer SNMP agent supports MIB II groups, except: There is no support for the EGP group from MIB II (RFC 1213, section 3.11 and 6.10). Protocol statistics returned for MIB II groups (IP, ICMP, TCP, UDP, etc.) do not accurately capture all FortiAnalyzer traffic activity. More accurate information can be obtained from the information reported by the FortiAnalyzer MIB.
RFC-2665 (Ethernet-like MIB)	The FortiAnalyzer SNMP agent supports Ethernet-like MIB information except the dot3Tests and dot3Errors groups.

You can obtain these MIB files from the Customer Service & Support portal: <https://support.fortinet.com>.

To be able to communicate with your FortiAnalyzer unit's SNMP agent, you must first compile these MIBs into your SNMP manager. If the standard MIBs used by the SNMP agent are already compiled into your SNMP manager, you do not have to compile them again.

To view a trap or query's name, object identifier (OID), and description, open its MIB file in a plain text editor.

All traps that are sent include the message, the FortiAnalyzer unit's serial number, and the host name.

### SNMP MIB Files

You can download the *FORTINET-FORTIMANAGER-FORTIANALYZER-MIB.mib* MIB file in the firmware image file folder. The *FORTINET-CORE-MIB.mib* file is located in the main FortiAnalyzer v5.00 file folder.

### FORTINET-CORE-MIB

```
-- FORTINET-CORE-MIB.mib: Main MIB for Fortinet enterprise OID tree
--
-- MODULE-IDENTITY
--   OrgName
--     Fortinet Technologies, Inc.
```

```

-- ContactInfo
--   Technical Support
--   e-mail: support@fortinet.com
--   http://www.fortinet.com
--

FORTINET-CORE-MIB DEFINITIONS ::= BEGIN
IMPORTS
    ifIndex
        FROM IF-MIB
    InetAddress, InetAddressPrefixLength, InetAddressType
        FROM INET-ADDRESS-MIB
    MODULE-COMPLIANCE, NOTIFICATION-GROUP, OBJECT-GROUP
        FROM SNMPv2-CONF
    sysName
        FROM SNMPv2-MIB
    Integer32, MODULE-IDENTITY, NOTIFICATION-TYPE, OBJECT-TYPE,
    enterprises
        FROM SNMPv2-SMI
    DisplayString, TEXTUAL-CONVENTION
        FROM SNMPv2-TC;

fortinet MODULE-IDENTITY
    LAST-UPDATED "201205090000Z"
    ORGANIZATION
        "Fortinet Technologies, Inc."
    CONTACT-INFO
        "Technical Support
        email: support@fortinet.com
        http://www.fortinet.com
        "
    DESCRIPTION
        "Added fan failure and AMC bypass traps"
    REVISION "201205090000Z"
    DESCRIPTION
        "Registered FortiDDoS Mib OID"
    REVISION "201204230000Z"
    DESCRIPTION
        "Registered FortiDNS Mib OID"
    REVISION "201112230000Z"
    DESCRIPTION
        "Registered FortiCache Mib OID"
    REVISION "201104250000Z"
    DESCRIPTION
        "Supporting portuguese language"
    REVISION "201005140000Z"
    DESCRIPTION
        "Registered FortiScan Mib OID"
    REVISION "200905200000Z"
    DESCRIPTION
        "MIB module for Fortinet network devices."
    REVISION "200811190000Z"
    DESCRIPTION
        "Registered FortiWeb Mib OID"
    REVISION "200810210000Z"
    DESCRIPTION
        "Added SMI comments"

```

```

REVISION "200806250000Z"
DESCRIPTION
    "Adjusted fnAdmin tree to start at .1"
REVISION "200806160000Z"
DESCRIPTION
    "Spelling corrections."
REVISION "200804170000Z"
DESCRIPTION
    "Initial version of fortinet core MIB."
::= { enterprises 12356 } -- assigned by IANA

--
-- Fortinet MIB Textual Conventions (TC)
--

FnBoolState ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "Boolean data type representing enabled/disabled"
    SYNTAX INTEGER {
        disabled (1),
        enabled (2)
    }

FnLanguage ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "Enumerated type for user interface languages"
    SYNTAX INTEGER {
        english (1),
        simplifiedChinese (2),
        japanese (3),
        korean (4),
        spanish (5),
        traditionalChinese (6),
        french (7),
        portuguese (8),
        undefined (255)
    }

FnIndex ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d"
    STATUS current
    DESCRIPTION
        "Data type for table index values"
    SYNTAX Integer32 (0..2147483647)

FnSessionProto ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "Data type for session protocols"
    SYNTAX INTEGER {
        ip (0),
        icmp (1),
        igmp (2),
        ipip (4),
        tcp (6),

```

```

        egp (8),
        pup (12),
        udp (17),
        idp (22),
        ipv6 (41),
        rsvp (46),
        gre (47),
        esp (50),
        ah (51),
        ospf (89),
        pim (103),
        comp (108),
        raw (255)
    }

--
-- Fortinet Enterprise Structure of Management Information (SMI)
--

fnCoreMib OBJECT IDENTIFIER ::= { fortinet 100 }

--
-- Fortinet Product Family MIB Object Identifier Assignments
--
-- fnFortiGateMib OBJECT IDENTIFIER ::= { fortinet 101 }
-- fnFortiAnalyzerMib OBJECT IDENTIFIER ::= { fortinet 102 }
-- fnFortiManagerMib OBJECT IDENTIFIER ::= { fortinet 103 }
-- fnFortiDefenderMib OBJECT IDENTIFIER ::= { fortinet 104 }
-- fnFortiMailMib OBJECT IDENTIFIER ::= { fortinet 105 }
-- fnFortiSwitchMib OBJECT IDENTIFIER ::= { fortinet 106 }
-- fnFortiWebMib OBJECT IDENTIFIER ::= { fortinet 107 }
-- fnFortiScanMib OBJECT IDENTIFIER ::= { fortinet 108 }
-- fnFortiCacheMib OBJECT IDENTIFIER ::= { fortinet 109 }
-- fnFortiDNSMib OBJECT IDENTIFIER ::= { fortinet 110 }
-- fnFortiDDoS Mib OBJECT IDENTIFIER ::= { fortinet 111 }
--

--
-- fnCoreMib.fnCommon
--
fnCommon OBJECT IDENTIFIER ::= { fnCoreMib 1 }

--
-- fnCoreMib.fnCommon.fnSystem
--
fnSystem OBJECT IDENTIFIER ::= { fnCommon 1 }

fnSysSerial OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Device serial number. This is the same serial number as given
        in the ENTITY-MIB tables for the base entity."
    ::= { fnSystem 1 }

--

```

```

-- fnCoreMib.fnCommon.fnMgmt
--
fnMgmt OBJECT IDENTIFIER ::= { fnCommon 2 }

fnMgmtLanguage OBJECT-TYPE
    SYNTAX FnLanguage
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Language used for administration interfaces"
    ::= { fnMgmt 1 }

fnAdmin OBJECT IDENTIFIER ::= { fnMgmt 100 }

fnAdminNumber OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of admin accounts in fnAdminTable"
    ::= { fnAdmin 1 }

fnAdminTable OBJECT-TYPE
    SYNTAX SEQUENCE OF FnAdminEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A table of administrator accounts on the device. This table is
        intended to be extended with platform specific information."
    ::= { fnAdmin 2 }

fnAdminEntry OBJECT-TYPE
    SYNTAX FnAdminEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "An entry containing information applicable to a particular admin account"
    INDEX { fnAdminIndex }
    ::= { fnAdminTable 1 }

FnAdminEntry ::= SEQUENCE {
    fnAdminIndex Integer32,
    fnAdminName DisplayString,
    fnAdminAddrType InetAddressType,
    fnAdminAddr InetAddress,
    fnAdminMask InetAddressPrefixLength
}

fnAdminIndex OBJECT-TYPE
    SYNTAX Integer32 (1..2147483647)
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "An index uniquely defining an administrator account within the fnAdminTable"
    ::= { fnAdminEntry 1 }

fnAdminName OBJECT-TYPE

```

```

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The user-name of the specified administrator account"
 ::= { fnAdminEntry 2 }

fnAdminAddrType OBJECT-TYPE
    SYNTAX InetAddressType
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The type of address stored in fnAdminAddr, in compliance with INET-ADDRESS-MIB"
    ::= { fnAdminEntry 3 }

fnAdminAddr OBJECT-TYPE
    SYNTAX InetAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The address prefix identifying where the administrator account can be used from,
        typically an IPv4 address. The address type/format is determined by
        fnAdminAddrType."
    ::= { fnAdminEntry 4 }

fnAdminMask OBJECT-TYPE
    SYNTAX InetAddressPrefixLength
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The address prefix length (or network mask) applied to the fgAdminAddr to determine
        the subnet or host the administrator can access the device from"
    ::= { fnAdminEntry 5 }

--
-- fnCoreMib.fnCommon.fnTraps
--
fnTraps OBJECT IDENTIFIER ::= { fnCommon 3 }

fnTrapsPrefix OBJECT IDENTIFIER ::= { fnTraps 0 }

fnTrapObjects OBJECT IDENTIFIER ::= { fnTraps 1 }

fnGenTrapMsg OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "Generic message associated with an event. The content will depend on the nature of
        the trap."
    ::= { fnTrapObjects 1 }

fnTrapCpuThreshold NOTIFICATION-TYPE
    OBJECTS { fnSysSerial, sysName }
    STATUS current
    DESCRIPTION
        "Indicates that the CPU usage has exceeded the configured threshold."
    ::= { fnTrapsPrefix 101 }

```



```
fnTrapMemThreshold NOTIFICATION-TYPE
  OBJECTS { fnSysSerial, sysName }
  STATUS current
  DESCRIPTION
    "Indicates memory usage has exceeded the configured threshold."
  ::= { fnTrapsPrefix 102 }

fnTrapLogDiskThreshold NOTIFICATION-TYPE
  OBJECTS { fnSysSerial, sysName }
  STATUS current
  DESCRIPTION
    "Log disk usage has exceeded the configured threshold. Only available on devices
      with log disks."
  ::= { fnTrapsPrefix 103 }

fnTrapTempHigh NOTIFICATION-TYPE
  OBJECTS { fnSysSerial, sysName }
  STATUS current
  DESCRIPTION
    "A temperature sensor on the device has exceeded its threshold. Not all devices have
      thermal sensors. See manual for specifications."
  ::= { fnTrapsPrefix 104 }

fnTrapVoltageOutOfRange NOTIFICATION-TYPE
  OBJECTS { fnSysSerial, sysName }
  STATUS current
  DESCRIPTION
    "Power levels have fluctuated outside of normal levels. Not all devices have voltage
      monitoring instrumentation. See manual for specifications."
  ::= { fnTrapsPrefix 105 }

fnTrapPowerSupplyFailure NOTIFICATION-TYPE
  OBJECTS { fnSysSerial, sysName }
  STATUS current
  DESCRIPTION
    "Power supply failure detected. Not available on all models. Available on some
      devices which support redundant power supplies. See manual for specifications."
  ::= { fnTrapsPrefix 106 }

fnTrapAmcIfBypassMode NOTIFICATION-TYPE
  OBJECTS { fnSysSerial, sysName }
  STATUS current
  DESCRIPTION
    "An AMC interface entered bypass mode. Available on models with an AMC expansion
      slot. Used with the ASM-CX4 and ASM-FX2 cards."
  ::= { fnTrapsPrefix 107 }

fnTrapFanFailure NOTIFICATION-TYPE
  OBJECTS { fnSysSerial, sysName }
  STATUS current
  DESCRIPTION
    "A fan failure has been detected. Not all devices have fan sensors. See manual for
      specifications."
  ::= { fnTrapsPrefix 108 }

fnTrapIpChange NOTIFICATION-TYPE
  OBJECTS { fnSysSerial, sysName, ifIndex }
```

```

STATUS current
DESCRIPTION
    "Indicates that the IP address of the specified interface has been changed."
::= { fnTrapsPrefix 201 }

fnTrapTest NOTIFICATION-TYPE
OBJECTS { fnSysSerial, sysName }
STATUS current
DESCRIPTION
    "Trap sent for diagnostic purposes by an administrator."
::= { fnTrapsPrefix 999 }

--
-- fnCoreMib.fnCommon.fnMIBConformance
--
fnMIBConformance OBJECT IDENTIFIER ::= { fnCoreMib 10 }

fnSystemComplianceGroup OBJECT-GROUP
OBJECTS { fnSysSerial }
STATUS current
DESCRIPTION
    "Objects relating to the physical device."
::= { fnMIBConformance 1 }

fnMgmtComplianceGroup OBJECT-GROUP
OBJECTS { fnMgmtLanguage }
STATUS current
DESCRIPTION
    "Objects relating the management of a device."
::= { fnMIBConformance 2 }

fnAdminComplianceGroup OBJECT-GROUP
OBJECTS { fnAdminNumber, fnAdminName, fnAdminAddrType,
          fnAdminAddr, fnAdminMask }
STATUS current
DESCRIPTION
    "Administration access control objects."
::= { fnMIBConformance 3 }

fnTrapsComplianceGroup NOTIFICATION-GROUP
NOTIFICATIONS { fnTrapCpuThreshold, fnTrapMemThreshold,
                fnTrapLogDiskThreshold, fnTrapTempHigh,
                fnTrapVoltageOutOfRange, fnTrapPowerSupplyFailure,
                fnTrapAmcIfBypassMode, fnTrapFanFailure,
                fnTrapIpChange, fnTrapTest }
STATUS current
DESCRIPTION
    "Event notifications"
::= { fnMIBConformance 4 }

fnNotifObjectsComplianceGroup OBJECT-GROUP
OBJECTS { fnGenTrapMsg }
STATUS current
DESCRIPTION
    "Object identifiers used in notifications"
::= { fnMIBConformance 5 }

```

```

fnMIBCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "The compliance statement for the application MIB."

MODULE -- this module

GROUP fnSystemComplianceGroup
    DESCRIPTION
        "This group is mandatory for all Fortinet network appliances supporting this
        MIB."

GROUP fnMgmtComplianceGroup
    DESCRIPTION
        "This group is optional for devices that do not support common management
        interface options such as multiple languages."

GROUP fnAdminComplianceGroup
    DESCRIPTION
        "This group should be accessible on any device supporting administrator
        authentication."

GROUP fnTrapsComplianceGroup
    DESCRIPTION
        "Traps are optional. Not all models support all traps. Consult product literature
        to see which traps are supported."

GROUP fnNotifObjectsComplianceGroup
    DESCRIPTION
        "Object identifiers used in notifications. Objects are required if their
        containing trap is implemented."

 ::= { fnMIBConformance 100 }

END

```

## FORTINET-FORTIMANAGER-FORTIANALYZER-MIB

```

FORTINET-FORTIMANAGER-FORTIANALYZER-MIB DEFINITIONS ::= BEGIN

IMPORTS
    fnSysSerial, fortinet, FnIndex, fnGenTrapMsg
        FROM FORTINET-CORE-MIB
    sysName
        FROM SNMPv2-MIB
    InetPortNumber
        FROM INET-ADDRESS-MIB
    MODULE-COMPLIANCE, NOTIFICATION-GROUP, OBJECT-GROUP
        FROM SNMPv2-CONF
    MODULE-IDENTITY, NOTIFICATION-TYPE, OBJECT-TYPE,
    Integer32, Gauge32, Counter32, IpAddress
        FROM SNMPv2-SMI
    DisplayString, TEXTUAL-CONVENTION
        FROM SNMPv2-TC;

```

```

fnFortiManagerMib MODULE-IDENTITY
    LAST-UPDATED "201306100000Z"
    ORGANIZATION
        "Fortinet Technologies, Inc."
    CONTACT-INFO
        "
            Technical Support
            email: support@fortinet.com
            http://www.fortinet.com"
    DESCRIPTION
        "Added fmSysCpuUsageExcludedNice.
        Added fmTrapCpuThresholdExcludeNice."
    REVISION "201306100000Z"
    DESCRIPTION
        "Add support for FortiAnalyzer."
    REVISION "201303270000Z"
    DESCRIPTION
        "Added license gb/day and device quota trap. fmTrapLicGbDayThreshold
        and fmTrapLicDevQuotaThreshold"
    REVISION "201211260000Z"
    DESCRIPTION
        "Added commas between notifications in NOTIFICATION-GROUP.
        Added imports from SNMPv2-SMI and SNMPv2-TC.
        imported `OBJECT-GROUP' from module SNMPv2-CONF"
    REVISION "201204200000Z"
    DESCRIPTION
        "Added RAID trap fmTrapRAIDStatusChange."
    REVISION "201103250000Z"
    DESCRIPTION
        "Added fmSysMemUsed, fmSysMemCapacity, fmSysCpuUsage.
        Added new FortiManager models."
    REVISION "201101190000Z"
    DESCRIPTION
        "MIB module for Fortinet FortiManager devices."
    REVISION "200807180000Z"
    DESCRIPTION
        "Add sysName to fmTrapHASwitch."
    REVISION "200806260000Z"
    DESCRIPTION
        "OID correction for fnFortiManagerMib."
    REVISION "200806160000Z"
    DESCRIPTION
        "Spelling corrections."
    REVISION "200806100000Z"
    DESCRIPTION
        "Initial version of FORTINET-FORTIMANAGER-MIB."
    ::= { fortinet 103 }

--
-- fortinet.fnFortiManagerMib.fmTraps
--

FmRAIDStatusCode ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION

```

```

    "Enumerated list of RAID status codes."
    SYNTAX INTEGER { arrayOK(1), arrayDegraded(2), arrayFailed(3),
        arrayRebuilding(4), arrayRebuildingStarted(5),
        arrayRebuildingFinished(6), arrayInitializing(7),
        arrayInitializingStarted(8), arrayInitializingFinished(9),
        diskOK(10), diskDegraded(11), diskFailEvent(12) }

FmSessProto ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "data type for session protocols"
    SYNTAX INTEGER { ip(0), icmp(1), igmp(2), ipip(4), tcp(6),
        egg(8), pup(12), udp(17), idp(22), ipv6(41),
        rsvp(46), gre(47), esp(50), ah(51), ospf(89),
        pim(103), comp(108), raw(255) }

fmTraps OBJECT IDENTIFIER
    ::= { fnFortiManagerMib 0 }

fmTrapPrefix OBJECT IDENTIFIER
    ::= { fmTraps 0 }

fmTrapObject OBJECT IDENTIFIER
    ::= { fmTraps 1 }

fmRAIDStatus OBJECT-TYPE
    SYNTAX FmRAIDStatusCode
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "New RAID state associated with a RAID status change event."
    ::= { fmTrapObject 1 }

fmRAIDDevIndex OBJECT-TYPE
    SYNTAX DisplayString (SIZE(0..32))
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "Name/index of a RAID device relating to the event."
    ::= { fmTrapObject 2 }

fmLogRate OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "Log receiving rate in number of logs per second."
    ::= { fmTrapObject 3 }

fmLogRateThreshold OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "Threshold for log rate in number of logs per second."
    ::= { fmTrapObject 4 }

```

```
fmLogDataRate OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "Log receiving data rate in number of KB per second."
    ::= { fmTrapObject 5 }

fmLogDataRateThreshold OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "Threshold for log data rate in number of KB per second."
    ::= { fmTrapObject 6 }

fmLicGbDay OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "Log data used in number of GB per day."
    ::= { fmTrapObject 7 }

fmLicGbDayThreshold OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "Licensed threshold for log data in number of GB per day."
    ::= { fmTrapObject 8 }

fmLicDevQuota OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "Device quota used in number of GB."
    ::= { fmTrapObject 9 }

fmLicDevQuotaThreshold OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS accessible-for-notify
    STATUS current
    DESCRIPTION
        "Licensed threshold for device quota in number of GB."
    ::= { fmTrapObject 10 }

--
-- fortinet.fnFortiManagerMib.fmModel
--

fmModel OBJECT IDENTIFIER
    ::= { fnFortiManagerMib 1 }

fmg100 OBJECT IDENTIFIER
```

```
 ::= { fmModel 1000 }

fmgvm OBJECT IDENTIFIER
 ::= { fmModel 1001 }

fmgl00C OBJECT IDENTIFIER
 ::= { fmModel 1003 }

fmg200D OBJECT IDENTIFIER
 ::= { fmModel 2004 }

fmg300D OBJECT IDENTIFIER
 ::= { fmModel 3004 }

fmg400 OBJECT IDENTIFIER
 ::= { fmModel 4000 }

fmg400A OBJECT IDENTIFIER
 ::= { fmModel 4001 }

fmg400B OBJECT IDENTIFIER
 ::= { fmModel 4002 }

fmg400C OBJECT IDENTIFIER
 ::= { fmModel 4003 }

fmgl000C OBJECT IDENTIFIER
 ::= { fmModel 10003 }

fmg2000XL OBJECT IDENTIFIER
 ::= { fmModel 20000 }

fmg3000 OBJECT IDENTIFIER
 ::= { fmModel 30000 }

fmg3000B OBJECT IDENTIFIER
 ::= { fmModel 30002 }

fmg3000C OBJECT IDENTIFIER
 ::= { fmModel 30003 }

fmg4000D OBJECT IDENTIFIER
 ::= { fmModel 40004 }

fmg5001A OBJECT IDENTIFIER
 ::= { fmModel 50011 }

--
-- fortinet.fnFortiManagerMib.fmSystem
--

fmSystem OBJECT IDENTIFIER
 ::= { fnFortiManagerMib 2 }

--
-- fortinet.fnFortiManagerMib.fmSystem.fmSystemInfo
--
```

```
fmSystemInfo OBJECT IDENTIFIER
    ::= { fmSystem 1 }

fmSysCpuUsage OBJECT-TYPE
    SYNTAX Integer32 (0..100)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Current CPU usage (percentage)"
    ::= { fmSystemInfo 1 }

fmSysMemUsed OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Current memory used (KB)"
    ::= { fmSystemInfo 2 }

fmSysMemCapacity OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total physical and swap memory installed (KB)"
    ::= { fmSystemInfo 3 }

fmSysDiskUsage OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Current hard disk usage (MB)"
    ::= { fmSystemInfo 4 }

fmSysDiskCapacity OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Total hard disk capacity (MB)"
    ::= { fmSystemInfo 5 }

fmSysCpuUsageExcludedNice OBJECT-TYPE
    SYNTAX Gauge32 (0..100)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Current CPU usage excluded nice processes usage (percentage)"
    ::= { fmSystemInfo 6 }

fmTrapHASwitch NOTIFICATION-TYPE
    OBJECTS { fnSysSerial, sysName }
    STATUS current
    DESCRIPTION
```



```

        "FortiManager HA cluster has been re-arranged. A new master has been selected and
        asserted."
 ::= { fmTrapPrefix 401 }

fmTrapRAIDStatusChange NOTIFICATION-TYPE
    OBJECTS { fnSysSerial, sysName,
              fmRAIDStatus, fmRAIDDevIndex }
    STATUS current
    DESCRIPTION
        "Trap is sent when there is a change in the status of the RAID array, if present."
 ::= { fmTrapPrefix 402 }

fmTrapLogAlert NOTIFICATION-TYPE
    OBJECTS { fnSysSerial, sysName, fnGenTrapMsg }
    STATUS current
    DESCRIPTION
        "Trap is sent when a log based alert has been triggered. Alert description included
        in trap."
 ::= { fmTrapPrefix 403 }

fmTrapLogRateThreshold NOTIFICATION-TYPE
    OBJECTS { fnSysSerial, sysName, fmLogRate, fmLogRateThreshold }
    STATUS current
    DESCRIPTION
        "Indicates that the incoming log rate has exceeded the threshold"
 ::= { fmTrapPrefix 404 }

fmTrapLogDataRateThreshold NOTIFICATION-TYPE
    OBJECTS { fnSysSerial, sysName, fmLogDataRate, fmLogDataRateThreshold }
    STATUS current
    DESCRIPTION
        "Indicates that the incoming log data rate has exceeded the threshold"
 ::= { fmTrapPrefix 405 }

fmTrapLicGbDayThreshold NOTIFICATION-TYPE
    OBJECTS { fnSysSerial, sysName, fmLicGbDay, fmLicGbDayThreshold }
    STATUS current
    DESCRIPTION
        "Indicates that the used log has exceeded the licensed GB/Day"
 ::= { fmTrapPrefix 407 }

fmTrapLicDevQuotaThreshold NOTIFICATION-TYPE
    OBJECTS { fnSysSerial, sysName, fmLicDevQuota, fmLicDevQuotaThreshold }
    STATUS current
    DESCRIPTION
        "Indicates that the used device quota has exceeded the licensed device quota"
 ::= { fmTrapPrefix 408 }

fmTrapCpuThresholdExcludeNice NOTIFICATION-TYPE
    OBJECTS { fnSysSerial, sysName }
    STATUS current
    DESCRIPTION
        "Indicates that the CPU usage excluding nice processes has exceeded the threshold"
 ::= { fmTrapPrefix 409 }

--
-- fortinet.fnFortiManagerMib.faModel

```

--

faModel OBJECT IDENTIFIER  
::= { fnFortiManagerMib 3 }

faz100 OBJECT IDENTIFIER  
::= { faModel 1000 }

faz100A OBJECT IDENTIFIER  
::= { faModel 1001 }

faz100B OBJECT IDENTIFIER  
::= { faModel 1002 }

faz100C OBJECT IDENTIFIER  
::= { faModel 1003 }

faz200D OBJECT IDENTIFIER  
::= { faModel 2004 }

faz300D OBJECT IDENTIFIER  
::= { faModel 3004 }

faz400 OBJECT IDENTIFIER  
::= { faModel 4000 }

faz400B OBJECT IDENTIFIER  
::= { faModel 4002 }

faz400C OBJECT IDENTIFIER  
::= { faModel 4003 }

fazvm OBJECT IDENTIFIER  
::= { faModel 20 }

faz800 OBJECT IDENTIFIER  
::= { faModel 8000 }

faz800B OBJECT IDENTIFIER  
::= { faModel 8002 }

faz1000B OBJECT IDENTIFIER  
::= { faModel 10002 }

faz1000C OBJECT IDENTIFIER  
::= { faModel 10003 }

faz2000 OBJECT IDENTIFIER  
::= { faModel 20000 }

faz2000A OBJECT IDENTIFIER  
::= { faModel 20001 }

faz2000B OBJECT IDENTIFIER  
::= { faModel 20002 }

faz3000D OBJECT IDENTIFIER

```

 ::= { faModel 30004 }

faz4000 OBJECT IDENTIFIER
 ::= { faModel 40000 }

faz4000A OBJECT IDENTIFIER
 ::= { faModel 40001 }

faz4000B OBJECT IDENTIFIER
 ::= { faModel 40002 }

--
-- fortinet.fnFortiManagerMib.fmInetProto
--

fmInetProto OBJECT IDENTIFIER
 ::= { fnFortiManagerMib 4 }

fmInetProtoInfo OBJECT IDENTIFIER
 ::= { fmInetProto 1 }

fmInetProtoTables OBJECT IDENTIFIER
 ::= { fmInetProto 2 }

fmIpSessTable OBJECT-TYPE
SYNTAX SEQUENCE OF FmIpSessEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information on the IP sessions active on the device"
 ::= { fmInetProtoTables 1 }

fmIpSessEntry OBJECT-TYPE
SYNTAX FmIpSessEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information on a specific session, including source and destination"
INDEX { fmIpSessIndex }
 ::= { fmIpSessTable 1 }

FmIpSessEntry ::= SEQUENCE {
    fmIpSessIndex FnIndex,
    fmIpSessProto FmSessProto,
    fmIpSessFromAddr IpAddress,
    fmIpSessFromPort InetPortNumber,
    fmIpSessToAddr IpAddress,
    fmIpSessToPort InetPortNumber,
    fmIpSessExp Counter32
}

fmIpSessIndex OBJECT-TYPE
SYNTAX FnIndex
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "An index value that uniquely identifies an IP session within the fmIpSessTable"

```

```
 ::= { fmIpSessEntry 1 }

fmIpSessProto OBJECT-TYPE
    SYNTAX FmSessProto
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The protocol the session is using (IP, TCP, UDP, etc.)"
    ::= { fmIpSessEntry 2 }

fmIpSessFromAddr OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Source IP address (IPv4 only) of the session"
    ::= { fmIpSessEntry 3 }

fmIpSessFromPort OBJECT-TYPE
    SYNTAX InetPortNumber
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Source port number (UDP and TCP only) of the session"
    ::= { fmIpSessEntry 4 }

fmIpSessToAddr OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Destination IP address (IPv4 only) of the session"
    ::= { fmIpSessEntry 5 }

fmIpSessToPort OBJECT-TYPE
    SYNTAX InetPortNumber
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Destination Port number (UDP and TCP only) of the session"
    ::= { fmIpSessEntry 6 }

fmIpSessExp OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of seconds remaining before the session expires (if idle)"
    ::= { fmIpSessEntry 7 }

--
-- fortinet.fnFortiManagerMib.fmMibConformance
--

fmMIBConformance OBJECT IDENTIFIER
    ::= { fnFortiManagerMib 10 }
```

```

fmTrapsComplianceGroup NOTIFICATION-GROUP
  NOTIFICATIONS { fmTrapHASwitch, fmTrapRAIDStatusChange,
                  fmTrapLogAlert, fmTrapLogRateThreshold,
                  fmTrapLogDataRateThreshold,
                  fmTrapLicGbDayThreshold,
                  fmTrapLicDevQuotaThreshold,
                  fmTrapCpuThresholdExcludeNice }
  STATUS current
  DESCRIPTION
    "Event notifications"
    ::= { fmMIBConformance 1 }

fmSystemObjectGroup OBJECT-GROUP
  OBJECTS { fmSysMemUsed, fmSysMemCapacity,
            fmSysCpuUsage, fmSysDiskCapacity,
            fmSysDiskUsage, fmSysCpuUsageExcludedNice }
  STATUS current
  DESCRIPTION
    "Objects pertaining to the system status of the device."
    ::= { fmMIBConformance 2 }

fmNotificationObjComplianceGroup OBJECT-GROUP
  OBJECTS { fmRAIDStatus, fmRAIDDevIndex,
            fmLogRate, fmLogRateThreshold,
            fmLogDataRate, fmLogDataRateThreshold,
            fmLicGbDay, fmLicGbDayThreshold,
            fmLicDevQuota, fmLicDevQuotaThreshold }
  STATUS current
  DESCRIPTION
    "Object identifiers used in notifications"
    ::= { fmMIBConformance 3 }

fmSessionComplianceGroup OBJECT-GROUP
  OBJECTS {
    fmIpSessProto,
    fmIpSessFromAddr,
    fmIpSessFromPort,
    fmIpSessToAddr,
    fmIpSessToPort,
    fmIpSessExp
  }
  STATUS current
  DESCRIPTION "Session related instrumentation"
  ::= { fmMIBConformance 4 }

fmMIBCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "The compliance statement for the FortiManager FortiAnalyzer MIB."

  MODULE -- this module

  GROUP fmTrapsComplianceGroup
  DESCRIPTION
    "Traps are optional. Not all models support all traps. Consult product literature
    to see which traps are supported."

```

```
GROUP fmSystemObjectGroup
DESCRIPTION
    "Model and feature specific."

GROUP fmNotificationObjComplianceGroup
DESCRIPTION
    "Object identifiers used in notifications. Objects are required if their
    containing trap is implemented."

GROUP fmSessionComplianceGroup
DESCRIPTION
    "IP session related implementation."

 ::= { fmMIBConformance 100 }

END -- end of module FORTINET-FORTIMANAGER-FORTIANALYZER-MIB.
```



Copyright© 2017 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiCare® and FortiGuard®, and certain other marks are registered trademarks of Fortinet, Inc., in the U.S. and other jurisdictions, and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Counsel, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests. In no event does Fortinet make any commitment related to future deliverables, features or development, and circumstances may change such that any forward-looking statements herein are not accurate. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.